

PDP

Analytical Services
1680 Lake Front Circle, Suite B
The Woodlands, TX 77380

Phone (281) 363-2233 Fax (281) 298-5784

INVOICE

INVOICE #	933025
DATE	09/24/98

Bill To
Ecology & Environment, Inc
Accounts Payable
199 Brian Street
Dallas TX 75201

Ship To
Ecology & Environment, Inc
Mr. David Anderson
199 Brian Street
Dallas TX 75201

PO NUMBER

TERMS

Project ID

Episode No

Code

30 days

6S180

4802

PDP

Quantity

DESCRIPTION

Unit Price

AMOUNT

28	BTEX	40.00	1,120.00
20	TAL Metals	90.00	1,800.00
20	PAH	110.00	2,200.00
20	pH	5.00	100.00
26	TPH 1005	40.00	1,040.00

Amount Paid 0.00

Amount Due 6,260.00

SUBTOTAL

TAX @

TOTAL

\$6,260.00

9011575



PDP

Analytical Services
1680 Lake Front Circle, Suite B
The Woodlands, TX 77380

Phone (281) 363-2233 Fax (281) 298-5784

INVOICE

INVOICE # 933024

DATE 09/24/98

Bill To
Ecology & Environment, Inc
Accounts Payable
199 Brian Street
Dallas TX 75201

Ship To
Ecology & Environment, Inc
Mr. David Anderson
199 Brian Street
Dallas TX 75201

PO NUMBER

TERMS

Project ID

Episode No.

Code

30 days

6S180

4798

PDP

Quantity

DESCRIPTION

Unit Price

AMOUNT

12	BTEX	40.00	480.00
10	TAL Metals	90.00	900.00
10	PAH	110.00	1,100.00
10	pH	5.00	50.00
11	TPH 1005	40.00	440.00

Amount Paid 0.00

Amount Due 2,970.00

SUBTOTAL

TAX @

TOTAL

\$2,970.00

ecology and environment, inc.

1999 Bryan St., Suite 2000
Dallas, TX 75201
(214) 220-0318

International Specialists in the Environment
FAX: (214) 855-1422

FAX TRANSMISSION FORM

Date: August 10, 1998

Time:

Job Charge: 608KJ0603000006052601SFXX

Total pages: 1
(including transmission form)

To: Mark Bourgeois

Company: PDP Analytical

Fax phone: 281-298-5784

From: David Anderson

IF THIS FAX IS INCOMPLETELY RECEIVED OR IS ILLEGIBLE, PLEASE CALL FOR RETRANSMISSION.

RE: Case 6S180, PDP episode 4802. Sample SB40-GW06, PDP # 4802-014

The matrix on this sample should be water, not soil.

David

ecology and environment, inc.

1999 Bryan St., Suite 2000
Dallas, TX 75201
(214) 220-0318

International Specialists in the Environment
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IF THIS FAX IS INCOMPLETELY RECEIVED OR IS ILLEGIBLE, PLEASE CALL FOR RETRANSMISSION.

RE: Case 6S180, PDP episode 4802. Sample SB40-GW06, PDP # 4802-014

The matrix on this sample should be water, not soil.

David

OFFICIAL CHAIN OF CUSTODY RECORD

PROJ. NO. KJ6103 052601SFXX		PROJECT NAME WILCOX REFINERY				NO. OF CON- TAINERS	<div style="display: flex; justify-content: space-between;"> <div>Metals (6010B)</div> <div>PAHs (8310)</div> <div>TPH (TVRCL 1005)</div> <div>BTEX (8021B MA)</div> </div>					REMARKS			
SAMPLERS: (Signature) J. Beer B. Martel							EPA Sample Tag #								
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION										
SB20-0030	8/4	0910		✓	SB20 (0'-3')	3	✓	✓	✓	✓	✓	6-097026	6-097027	6-097028	
SB21-0030		1010		✓	SB21-0030	3	✓	✓	✓	✓	✓	6-097029	6-097030		
SB22-0030		1040		✓	SB22 (0'-3')	3	✓	✓	✓	✓	✓	6-097031	6-097032		
SB23-0030		1045		✓	SB23 (0'-3')	3	✓	✓	✓	✓	✓	6-097033	6-097034		
SB24-0030		1430		✓	SB24 (0'-2')	3	✓	✓	✓	✓	✓	6-097035	6-097036		
SB25-0030		1505		✓	SB25 (0'-3')	3	✓	✓	✓	✓	✓	6-097037	6-097038		
SB26-0020	✓	1650		✓	SB26 (0'-2')	3	✓	✓	✓	✓	✓	6-097049	6-097050		
SB36-6070		0940		✓	SB36 (6-7')	3	✓	✓	✓	✓	✓	6-097435	6-097436		
SB37-6070		1501		✓	SB37 (6-7')	3	✓	✓	✓	✓	✓	6-097432	6-097433		
SB38-0010		1540		✓	SB38 (0-1')	3	✓	✓	✓	✓	✓	6-097433	6-097434		
SW03		1425		✓	SW03 (Background)	4		✓		✓	✓	6-097437	6-097438		
TB0804	✓	1655		✓	Trip Blank	2					✓	6-097439	6-097440		
Relinquished by: (Signature) B. Martel						Date / Time 8/4/98 1800		Received by: (Signature)				Date / Time		Received by: (Signature)	
Relinquished by: (Signature) S1						Date / Time		Received by: (Signature)				Date / Time		Received by: (Signature)	
Relinquished by: (Signature)						Date / Time		Received for Laboratory by: (Signature)				Date / Time		Remarks Fed Ex Airbill # 80555004306	
Shipped by:						Airbill Number:									

Distribution: White Accompanies Shipment; Pink to Coordinator Field Files;
Green to Report; Yellow Returns with Warrant

**OFFICIAL
CHAIN OF CUSTODY RECORD**

PROJ. NO. K56103 052601 SFXX		PROJECT NAME WILCOX REFINERY				NO. OF CON- TAINERS	<div style="display: flex; justify-content: space-around;"> <div style="transform: rotate(-45deg);">Metals (60103)</div> <div style="transform: rotate(-45deg);">PAH (8310)</div> <div style="transform: rotate(-45deg);">TPH (THREE 1005)</div> <div style="transform: rotate(-45deg);">PH</div> <div style="transform: rotate(-45deg);">BTEX (80218 M)</div> </div>					REMARKS		
SAMPLERS: (Signature) <i>[Signature]</i>														
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION							EPA TAG #		
SB27-0030	4/5/98	0830		X	SB27 (0'-3')	3	✓	✓	✓	✓	✓	6-097351 / 6-097352		
SB28-0020		0945		X	SB28 (0'-2')	3	✓	✓	✓	✓	✓	6-097354 / 6-097353		
SB29-0010		1020		X	SB29 (0'-1')	3	✓	✓	✓	✓	✓	6-097355 / 6-097356		
SW01		1045			SW01									
SB30-0030		1100		X	SB30 (0'-3')	3	✓	✓	✓	✓	✓	6-097358 / 6-097359		
SW01		1045		X	SW01	4			✓		✓	6097360 / 6097357		
SB31-0030		1145		X	SB31 (0'-3')	3	✓	✓	✓	✓	✓	6097361 / 6097362		
SW02		1415		X	SW02	4			✓		✓	6097363 / 6097364		
SW02P		1425		X	SW02D	4			✓		✓	6097365 / 6097366		
SB32-0010		1440		X	SB32 (0'-1')	3	✓	✓	✓	✓	✓	6097367 / 6-097368		
SB32-00100		1440		X	SB32 (0'-1')	3	✓	✓	✓	✓	✓	6-097369 / 6-097370		
SB33-0010		1515		X	SB33 (0'-1')	3	✓	✓	✓	✓	✓	6-097371 / 6-097372		
SB34-0010		1540		X	SB34 (0'-1')	3	✓	✓	✓	✓	✓	6-097373 / 6-097374		
Relinquished by: (Signature)						Date / Time		Received by: (Signature)			Date / Time		Received by: (Signature)	
<i>[Signature]</i>						4/5/98 1800								
Relinquished by: (Signature)						Date / Time		Received by: (Signature)			Date / Time		Received by: (Signature)	
Relinquished by: (Signature)						Date / Time		Received for Laboratory by: (Signature)			Date / Time		Remarks	
													FedEx Airbill #	
Shipped by:						Airbill Number:							805550003387 Bm 6/14/98	
													805550003398	

Distribution: White Accompanies Shipment; Pink to Coordinator Field Files;
Green to Report; Yellow Returns with Warrant

OFFICIAL CHAIN OF CUSTODY RECORD

EPA 7500-53
(11/96)

6- 09264

**OFFICIAL
CHAIN OF CUSTODY RECORD**

PROJ. NO. K56105 05Z6015FXX		PROJECT NAME WILCOX REFINERY				NO. OF CON- TAINERS	<div style="display: flex; justify-content: space-around; font-size: small;"> <div style="transform: rotate(-45deg); border: 1px solid black; padding: 2px;">METALS (6010 B)</div> <div style="transform: rotate(-45deg); border: 1px solid black; padding: 2px;">PAH (8310)</div> <div style="transform: rotate(-45deg); border: 1px solid black; padding: 2px;">TPH (INRCC 1045)</div> <div style="transform: rotate(-45deg); border: 1px solid black; padding: 2px;">PH</div> <div style="transform: rotate(-45deg); border: 1px solid black; padding: 2px;">BTEX (80218-M)</div> </div>					REMARKS <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> EPA TAG # </div>	
SAMPLERS: (Signature) Chris Samsone / Ben Martinez													
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION								
SB35-0830	8/6/98	0815		X	SB35 (0'-3')	3	✓	✓	✓	✓	✓	✓	6-099460 / 6-099461
SB41-2030	8/6/98	0840		X	SB41 (2'-3')	3	✓	✓	✓	✓	✓	✓	6-097042 / 6-097044
SB41-2030-D	8/6/98	0842		X	SB41-D (2'-3')	3	✓	✓	✓	✓	✓	✓	6-097043 / 6-097045
SB42-6W07	8/6/98	0939		X	SB42-6W07	4			✓		✓	✓	6-097046 / 6-097047
SB42-2030	8/6/98	0945		X	SB42 (2'-3')	3	✓	✓	✓	✓	✓	✓	6-097048 / 6-097375
SW04	8/6/98	1024		X	SW04	4			✓		✓	✓	6-097376 / 6-097377
SB37-6W08	8/6/98	1145		X	SB37-6W08	1					✓	✓	6-097378
SB46-6012	8/6/98	1430		X	SB46 (6'-12')	3	✓	✓	✓	✓	✓	✓	6-097380 / 6-097381
SB46-6012-D	8/6/98	1435		X	SB46-D (6'-12')	3	✓	✓	✓	✓	✓	✓	6-097382 / 6-097383
TB-0806	8/6/98	1600		X	TB-0806	1					✓	✓	6-097379
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)			
Ben Martinez		8/6/98 1800											
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)			
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time		Remarks					
								FedEx Airbill #					
Shipped by:				Airbill Number:		805550003398							

Distribution: White Accompanies Shipment; Pink to Coordinator Field Files;
Green to Report; Yellow Returns with Warrant

**PDP**

Analytical Services

1680 Lake Front Circle, Suite B
The Woodlands, Texas 77380

Sample Receipt and Login Verification

** Please fax immediately **

To: Daniel Anderson Date & Time 8/10/98
Company: E & E # Pages: 5
Fax #: 214-855-1422 Episode: 4802

Dear Valued Client:

We have taken every effort to insure that the samples you have submitted to us are assigned the correct sample identifications and analysis. However, only you can make the final determination. Please review the following PDP sample login sheet against the chains of custody that you have submitted to us. If you agree that the information is correct and that you authorize the work to be performed as stated on the sample login sheet, then please sign below and fax the form back to us within 24 hours. If PDP has not received authorization within 24 hours, then the analyses will be initiated as per the sample login sheet. However, PDP will not be held responsible for any problems that may arise without authorization. If you find discrepancies or wish to make changes, please advise us by telephone within 24 hours so that we may incorporate the changes.

With your cooperation, we will be able to process your testing more efficiently. Please coordinate with Sachin Kudchadkar or Reddy Pakanati with any changes or problems. We appreciate your help.

I authorize the work to be performed as on the PDP sample login sheet.

Signature _____

Title _____

Date and Time _____

If this Fax message is received poorly or incomplete, please notify us at:

Phone: (281) 363-2233 Fax: (281) 298-5784

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands TX 77380
Sample Log-In Report

Logged By: AFG	Report Date: 8/10/98 8:55:33
Client Name: ECOLOGY & ENVIRONMENT, INC.	Lab Project ID: Q1056-E&E
Client Project Name: E&E- WILCOX REFINERY	Date Logged: 08/10/98
Client Project #:	Date Received: 08/07/98
P.O. No.:	Time Received: 9:45
Courier/No.:	

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain Of Custody No.	Date Due	Remarks
4802.001	SB27-0030	3	SOIL	08/05/98	08:30	5- 09263		
Tests Required								
- BTEX8021B							08/21/98	
- MET_TOTAL_TAL_EE							08/21/98	
- PAH8310							08/21/98	
- PH_9045C							08/21/98	
- TPH1005							08/21/98	
4802.002	SB28-0020	3	SOIL	08/05/98	09:45	6- 09263		
Tests Required								
- BTEX8021B							08/21/98	
- MET_TOTAL_TAL_EE							08/21/98	
- PAH8310							08/21/98	
- PH_9045C							08/21/98	
- TPH1005							08/21/98	
4802.003	SB29-0010	3	SOIL	08/05/98	10:20	6- 09263		
Tests Required								
- BTEX8021B							08/21/98	
- MET_TOTAL_TAL_EE							08/21/98	
- PAH8310							08/21/98	
- PH_9045C							08/21/98	
- TPH1005							08/21/98	
4802.004	SB30-0030	3	SOIL	08/05/98	11:00	6- 09263		
Tests Required								
- BTEX8021B							08/21/98	
- MET_TOTAL_TAL_EE							08/21/98	
- PAH8310							08/21/98	
- PH_9045C							08/21/98	
- TPH1005							08/21/98	
4802.005	SW01	4	WATER	08/05/98	10:45	6- 09263		
Tests Required								
- BTEX8021B							08/21/98	
- TPH1005							08/21/98	
4802.006	SB31-0030	3	SOIL	08/05/98	11:45	6- 09263		
Tests Required								
- BTEX8021B							08/21/98	
- MET_TOTAL_TAL_EE							08/21/98	
- PAH8310							08/21/98	

548/10/98
 Lab Approval

Client Approval

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands TX 77380
Sample Log-In Report

Logged By: AFG	Report Date: 8/10/98 8:55:35
Client Name: ECOLOGY & ENVIRONMENT, INC.	Lab Project ID: Q1056-E&E
Client Project Name: E&E- WILCOX REFINERY	Date Logged: 08/10/98
Client Project #:	Date Received: 08/07/98
P.O. No.:	Time Received: 9:45
Courier/No.:	

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain Of Custody No.	Date Due	Remarks
	- PH_9045C						08/21/98	
	- TPH1005						08/21/98	
4802.007	SW02	/4	WATER	08/05/98	14:15	6- 09263		
	Tests Required							
	- BTEX8021B						08/21/98	
	- TPH1005						08/21/98	
4802.008	SW02D	/4	WATER	08/05/98	14:25	6- 09263		
	Tests Required							
	- BTEX8021B						08/21/98	
	- TPH1005						08/21/98	
4802.009	SB32-0010	3	SOIL	08/05/98	14:40	6- 09263		
	Tests Required							
	- BTEX8021B						08/21/98	
	- MET_TOTAL_TAL_EE						08/21/98	
	- PAH8310						08/21/98	
	- PH_9045C						08/21/98	
	- TPH1005						08/21/98	
4802.010	SB32-0010D	3	SOIL	08/05/98	14:40	6- 09263		
	Tests Required							
	- BTEX8021B						08/21/98	
	- MET_TOTAL_TAL_EE						08/21/98	
	- PAH8310						08/21/98	
	- PH_9045C						08/21/98	
	- TPH1005						08/21/98	
4802.011	SB33-0010	3	SOIL	08/05/98	15:15	6- 09263		
	Tests Required							
	- BTEX8021B						08/21/98	
	- MET_TOTAL_TAL_EE						08/21/98	
	- PAH8310						08/21/98	
	- PH_9045C						08/21/98	
	- TPH1005						08/21/98	
4802.012	SB34-0010	3	SOIL	08/05/98	15:40	6- 09263		
	Tests Required							
	- BTEX8021B						08/21/98	
	- MET_TOTAL_TAL_EE						08/21/98	
	- PAH8310						08/21/98	
	- PH_9045C						08/21/98	

SR 8/10/98
 Lab Approval

Client Approval

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands TX 77380
Sample Log-In Report

Logged By: AFG

Report Date: 8/10/98 8:55:36

Client Name: ECOLOGY & ENVIRONMENT, INC.
 Client Project Name: E&E- WILCOX REFINERY
 Client Project #:
 P.O. No.:
 Courier/No.:

Lab Project ID: Q1056-E&E
 Date Logged: 08/10/98
 Date Received: 08/07/98
 Time Received: 9:45

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain Of Custody No.	Date Due	Remarks
	- TPH1005						08/21/98	
4802.013	SB40-3040	3	SOIL	08/05/98	09:11	6- 09264		
	Tests Required							
	- BTEX8021B						08/21/98	
	- MET_TOTAL_TAL_EE						08/21/98	
	- PAH8310						08/21/98	
	- PH_9045C						08/21/98	
	- TPH1005						08/21/98	
4802.014	SB40-6W06	4	SOIL Water	08/05/98	08:55	6- 09264		
	Tests Required							
	- BTEX8021B						08/21/98	
	- TPH1005						08/21/98	
4802.015	SB39-3040	3	SOIL	08/05/98	11:35	6- 09264		
	Tests Required							
	- BTEX8021B						08/21/98	
	- MET_TOTAL_TAL_EE						08/21/98	
	- PAH8310						08/21/98	
	- PH_9045C						08/21/98	
	- TPH1005						08/21/98	
4802.016	SB43-6070	3	SOIL	08/05/98	14:49	6- 09264		
	Tests Required							
	- BTEX8021B						08/21/98	
	- MET_TOTAL_TAL_EE						08/21/98	
	- PAH8310						08/21/98	
	- PH_9045C						08/21/98	
	- TPH1005						08/21/98	
4802.017	SB44-4050	3	SOIL	08/05/98	16:25	6- 09264		
	Tests Required							
	- BTEX8021B						08/21/98	
	- MET_TOTAL_TAL_EE						08/21/98	
	- PAH8310						08/21/98	
	- PH_9045C						08/21/98	
	- TPH1005						08/21/98	
4802.018	SB45-0010	3	SOIL	08/05/98	16:50	6- 09264		
	Tests Required							
	- BTEX8021B						08/21/98	
	- MET_TOTAL_TAL_EE						08/21/98	

Lab Approval

Client Approval

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands TX 77380
Sample Log-In Report

Logged By: AFG	Report Date: 8/10/98 8:55:36
Client Name: ECOLOGY & ENVIRONMENT, INC.	Lab Project ID: Q1056-E&E
Client Project Name: E&E- WILCOX REFINERY	Date Logged: 08/10/98
Client Project #:	Date Received: 08/07/98
P.O. No.:	Time Received: 9:45
Courier/No.:	

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain Of Custody No.	Date Due	Remarks
	- PAH8310						08/21/98	
	- PH_9045C						08/21/98	
	- TPH1005						08/21/98	
4802.019	SB35-0030	3	SOIL	08/06/98	08:15	6- 09279		
	Tests Required							
	- BTEX8021B						08/21/98	
	- MET_TOTAL_TAL_EE						08/21/98	
	- PAH8310						08/21/98	
	- PH_9045C						08/21/98	
	- TPH1005						08/21/98	
4802.020	SB41-2030	3	SOIL	08/06/98	08:40	6- 09279		
	Tests Required							
	- BTEX8021B						08/21/98	
	- MET_TOTAL_TAL_EE						08/21/98	
	- PAH8310						08/21/98	
	- PH_9045C						08/21/98	
	- TPH1005						08/21/98	
4802.021	SB41-2030D	3	SOIL	08/06/98	08:42	6- 09279		
	Tests Required							
	- BTEX8021B						08/21/98	
	- MET_TOTAL_TAL_EE						08/21/98	
	- PAH8310						08/21/98	
	- PH_9045C						08/21/98	
	- TPH1005						08/21/98	
4802.022	SB42-GW07	/ 4	WATER	08/06/98	09:39	6- 09279		
	Tests Required							
	- BTEX8021B						08/21/98	
	- TPH1005						08/21/98	
4802.023	SB42-2030	3	SOIL	08/06/98	09:45	6- 09279		
	Tests Required							
	- BTEX8021B						08/21/98	
	- MET_TOTAL_TAL_EE						08/21/98	
	- PAH8310						08/21/98	
	- PH_9045C						08/21/98	
	- TPH1005						08/21/98	
4802.024	SW04	4	WATER	08/06/98	10:24	6- 09279		
	Tests Required							

SK 8/10/98
 Lab Approval

Client Approval

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands TX 77380
Sample Log-In Report

Logged By: AFG	Report Date: 8/10/98 8:55:38
Client Name: ECOLOGY & ENVIRONMENT, INC.	Lab Project ID: Q1056-E&E
Client Project Name: E&E- WILCOX REFINERY	Date Logged: 08/10/98
Client Project #:	Date Received: 08/07/98
P.O. No.:	Time Received: 9:45
Courier/No.:	

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain Of Custody No.	Date Due	Remarks
	- BTEX8021B						08/21/98	
	- TPH1005						08/21/98	
4802.025	SB37-GW08	1	WATER	08/06/98	11:45	6- 09279		
	Tests Required							
	- BTEX8021B						08/21/98	
4802.026	SB46-0612	3	SOIL	08/06/98	14:30	6- 09279		
	Tests Required							
	- BTEX8021B						08/21/98	
	- MET_TOTAL_TAL_EE						08/21/98	
	- PAH8310						08/21/98	
	- PH_9045C						08/21/98	
	- TPH1005						08/21/98	
4802.027	SB46-0612D	3	SOIL	08/06/98	14:35	6- 09279		
	Tests Required							
	- BTEX8021B						08/21/98	
	- MET_TOTAL_TAL_EE						08/21/98	
	- PAH8310						08/21/98	
	- PH_9045C						08/21/98	
	- TPH1005						08/21/98	
4802.028	TB-0806	1	WATER	08/06/98	16:00	6- 09279		
	Tests Required							
	- BTEX8021B						08/21/98	

Instructions To Lab:

CLP LIKE DATA PACKAGE
 FAX DUE: 14 DAYS
 HARD COPY: 21 DAYS
 USE E&E SOW

*MS/MSD REQUIRED ON E&E SAMPLES.

SR 8/10/98

Lab Approval

Client Approval

**PDP**

Analytical Services

1680 Lake Front Circle, Suite B
The Woodlands, Texas 77380

Sample Receipt and Login Verification

** Please fax immediately **

To: David Anderson Date & Time 8-7-98
Company: E E E # Pages: 3
Fax #: 214-955-1422 Episode: 4798

Dear Valued Client:

We have taken every effort to insure that the samples you have submitted to us are assigned the correct sample identifications and analysis. However, only you can make the final determination. Please review the following PDP sample login sheet against the chains of custody that you have submitted to us. If you agree that the information is correct and that you authorize the work to be performed as stated on the sample login sheet, then please sign below and fax the form back to us within 24 hours. If PDP has not received authorization within 24 hours, then the analyses will be initiated as per the sample login sheet. However, PDP will not be held responsible for any problems that may arise without authorization. If you find discrepancies or wish to make changes, please advise us by telephone within 24 hours so that we may incorporate the changes.

With your cooperation, we will be able to process your testing more efficiently. Please coordinate with Sachin Kudchadkar or Reddy Pakanati with any changes or problems. We appreciate your help.

I authorize the work to be performed as on the PDP sample login sheet.

Signature _____

Title _____

Date and Time _____

If this Fax message is received poorly or incomplete, please notify us at:

Phone: (281) 363-2233 Fax: (281) 298-5784

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands TX 77380
Sample Log-In Report

Logged By: AFG	Report Date: 8/6/98 17:40:08
Client Name: ECOLOGY & ENVIRONMENT, INC.	Lab Project ID: Q1056-E&E
Client Project Name: E&E- WILCOX REFINERY	Date Logged: 08/06/98
Client Project #:	Date Received: 08/05/98
P.O. No.:	Time Received: 10:30
Courier/No.:	

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain Of Custody No.	Date Due	Remarks
4798.001	SB20-0030	3	SOIL	08/04/98	09:10	6-09262		
	Tests Required							
	- BTEX8021B						08/19/98	
	- MET_TOTAL_TAL_EE						08/19/98	
	- PAH8310						08/19/98	
	- PH_9045C						08/19/98	
	- TPH1005						08/19/98	
4798.002	SB21-0030	3	SOIL	08/04/98	10:10	6-09262		
	Tests Required							
	- BTEX8021B						08/19/98	
	- MET_TOTAL_TAL_EE						08/19/98	
	- PAH8310						08/19/98	
	- PH_9045C						08/19/98	
	- TPH1005						08/19/98	
4798.003	SB22-0030	3	SOIL	08/04/98	10:40	6-09262		
	Tests Required							
	- BTEX8021B						08/19/98	
	- MET_TOTAL_TAL_EE						08/19/98	
	- PAH8310						08/19/98	
	- PH_9045C						08/19/98	
	- TPH1005						08/19/98	
4798.004	SB23-0030	3	SOIL	08/04/98	11:45	6-09262		
	Tests Required							
	- BTEX8021B						08/19/98	
	- MET_TOTAL_TAL_EE						08/19/98	
	- PAH8310						08/19/98	
	- PH_9045C						08/19/98	
	- TPH1005						08/19/98	
4798.005	SB24-0020	3	SOIL	08/04/98	14:30	6-09262		
	Tests Required							
	- BTEX8021B						08/19/98	
	- MET_TOTAL_TAL_EE						08/19/98	
	- PAH8310						08/19/98	
	- PH_9045C						08/19/98	
	- TPH1005						08/19/98	
4798.006	SB25-0030	3	SOIL	08/04/98	15:05	6-09262		
	Tests Required							

548/6/98

Lab Approval

Client Approval

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands TX 77380
Sample Log-In Report

Logged By: AFG	Report Date: 8/6/98 17:40:11
Client Name: ECOLOGY & ENVIRONMENT, INC.	Lab Project ID: Q1056-E&E
Client Project Name: E&E- WILCOX REFINERY	Date Logged: 08/06/98
Client Project #:	Date Received: 08/05/98
P.O. No.:	Time Received: 10:30
Courier/No.:	

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain Of Custody No.	Date Due	Remarks
	- BTEX8021B						08/19/98	
	- MET_TOTAL_TAL_EE						08/19/98	
	- PAH8310						08/19/98	
	- PH_9045C						08/19/98	
	- TPH1005						08/19/98	
4798.007	SB26-0020	3	SOIL	08/04/98	16:00	6-09262		
	Tests Required							
	- BTEX8021B						08/19/98	
	- MET_TOTAL_TAL_EE						08/19/98	
	- PAH8310						08/19/98	
	- PH_9045C						08/19/98	
	- TPH1005						08/19/98	
4798.008	SB36-6070	3	SOIL	08/04/98	09:40	6-09262		
	Tests Required							
	- BTEX8021B						08/19/98	
	- MET_TOTAL_TAL_EE						08/19/98	
	- PAH8310						08/19/98	
	- PH_9045C						08/19/98	
	- TPH1005						08/19/98	
4798.009	SB37-6070	3	SOIL	08/04/98	15:01	6-09262		
	Tests Required							
	- BTEX8021B						08/19/98	
	- MET_TOTAL_TAL_EE						08/19/98	
	- PAH8310						08/19/98	
	- PH_9045C						08/19/98	
	- TPH1005						08/19/98	
4798.010	SB38-0010	3	SOIL	08/04/98	15:40	6-09262		
	Tests Required							
	- BTEX8021B						08/19/98	
	- MET_TOTAL_TAL_EE						08/19/98	
	- PAH8310						08/19/98	
	- PH_9045C						08/19/98	
	- TPH1005						08/19/98	
4798.011	SW03	4	WATER	08/04/98	14:25	6-09262		
	Tests Required							
	- BTEX8021B						08/19/98	
	- TPH1005						08/19/98	

SV 8/6/98

Lab Approval

Client Approval

PDP Analytical Services
1680 Lake Front Circle, Suite B, The Woodlands TX 77380
Sample Log-In Report

Logged By: AFG						Report Date: 8/6/98 17:40:12		
Client Name: ECOLOGY & ENVIRONMENT, INC.						Lab Project ID: Q1056-E&E		
Client Project Name: E&E- WILCOX REFINERY						Date Logged: 08/06/98		
ClientProject #:						Date Received: 08/05/98		
P.O. No.:						Time Received: 10:30		
Courier/No.:								
<hr/>								
Lab	Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain Of Custody No.	Date Due
								Remarks
4798.012	TB0804		2	WATER	08/04/98	16:55	6-09262	
Tests Required								
- BTEX8021B								
- TPH1005								
<hr/>								
Instructions To Lab:								
CLP LIKE DATA PACKAGE								
FAX DUE: 14 DAYS								
HARD COPY: 21 DAYS								
USE E&E SOW								
<hr/>								

5/9/98
Lab Approval

Client Approval

MEMORANDUM

PAGE 1

TO: Al Tinker, Region 6 START Subcontracts Manger

THRU: David Anderson (Procurement Chemist)

FROM: Tom Beer (Project Manager)

DATE: 7/17/98

START REGION/OFFICE: 06/Dallas

STATEMENT OF NEED: Please state reasons for requesting a purchase order below:

The EPA TM has requested that the START obtain analytical services for samples to be collected at the Wilcox Refinery site located in Bristow, Oklahoma.

PAN 052601SFG1, TDD 06-98-03-0009

Recommended Vendor and Reason:

PDP Analytical is the recommended vendor. The recommended vendor has provided the lowest cost and is technically capable of conducting the required analysis in the required time.

Attachment:

TDD. PR, Bid Analysis, Written Bid,
Reps and Certs (if applicable)

ecology and environment, inc.
PURCHASE REQUISITION

Vendor: <u>PDP Analytical Services</u> Address: <u>1680 Lake Front Circle, Suite B</u> <u>The Woodlands, Texas 77380</u> Contact: <u>Mark Bourgeois</u> Phone: <u>281-363-2233</u>	Date: <u>7/16/98</u> PR No.: <u>SL61-9256</u> Ship Via: _____ Date Required: <u>8/3/98</u> LIN: _____ PO No.: _____ Contract No.: <u>68-W6-0013</u> Account: _____ Project Number/PAN: <u>6S180 / 052601SFG1</u>
Ship to: <u>Same As Billing</u> Attention: <u>David Anderson</u>	Billing Address: <u>Ecology and Environment, Inc.</u> <u>1999 Bryan Street, Suite 2000</u> <u>Dallas, Texas 75201</u> Attention: _____

Item	Description	Quantity	Unit Price	Amount
1	BTEX by Mod.8021B (46 soil samples + 3 MS/MSD pairs)	46 analysis	40.00	1840.00
2	PAH by 8310 (46 soil samples + 3 MS/MSD pairs)	46 analysis	110.00	5060.00
3	TAL Metals by 6010B (46 soil samples + 3 MS/MSD pairs)	46 analysis	90.00	4140.00
4	TPH by TNRCC 1005 (46 soil samples + 3 MS/MSD pairs)	46 analysis	40.00	1840.00
5	pH by 9045C (46 soil samples + 3 Duplicates)	46 analysis	5.00	230.00
6	BTEX by Mod. 8021B (51 water samples + 3 MS/MSD pairs)	51 analysis	40.00	2040.00
7	TPH by TNRCC 1005 (46 water samples + 3 MS/MSD pairs)	46 analysis	40.00	1840.00
8	Turnaround time (TAT) of 14 calender days (c.d.) for verbal results and 21 c.d. for hardcopy results		INCL	NC
9	Full CLP data deliverable		INCL	NC
	PURCHASE REQUISITION TOTAL			16990.00

Purpose/Justification (continue on back if necessary)

The EPA TM requested that the START obtain analytical services for samples to be collected at the Wilcox Refinery site located in Bristow, Oklahoma.

PAN 052601SFG1, Project Number 6S180, TDD 06-98-03-0009

ALTERNATE SOURCES

Item	Vendor	Comment	Amount
1-9	Ecology and Environment Analytical Service Center	higher bid	20490.00
1-9	Specialized Assays, Inc.	higher bid	19529.00

Printed Name of Requestor: _____ Signature of Requestor: _____

Approved by/Date:

1. _____ 3. _____
 2. _____ 4. _____

BID ANALYSIS

VENDOR (1): PDP Analytical Services

ADDRESS: 1680 Lake Front Circle, Suite B The Woodlands, TX 77380

TELEPHONE: 281-363-2233

CONTACT PERSON: Mark Bourgeois

VENDOR (2): Ecology and Environment Inc. Analytical Service Center

ADDRESS: 4493 Walden Avenue Lancaster, NY 14086

TELEPHONE: 716-685-8080

CONTACT PERSON: Caryn Wojtowicz

VENDOR (3): Specialized Assays, Inc.

ADDRESS: 2960 Foster Creighton Dr. Nashville, TN 37204-0566

TELEPHONE: 615-726-0177

CONTACT PERSON: Jerry Burgess

<u>CONTACT BREAKDOWN OF WORK TO BE PERFORMED:</u>	<u>UNIT COST PER VENDOR</u>		
	(1)	(2)	(3)
1. BTEX in soil by 8021B/E&E SOW	40.00	50.00	40.00
46 samples + 3 MS/MSD pairs	X 46(a)	X 46(a)	X 52
Item 1 subtotal	1840.00	2300.00	2080.00
2. PAH in soil by 8310/E&E SOW	110.00	110.00	95.00
46 samples + 3 MS/MSD pairs	X 46(a)	X 46(a)	X 52
Item 2 subtotal	5060.000	5060.00	4940.00
3. TAL Metals in soil by 6010B/E&E SOW	90.00	90.00	90.00
46 samples + 3 MS/DUP pairs	X 46(a)	X 46(a)	X 52
Item 3 subtotal	4140.00	4140.00	4680.00
4. TPH in soil by TNRCC1005/E&E SOW	40.00	65.00	51.00
46 samples + 3 MS/MSD pairs	X 46(a)	X 46(a)	X 52
Item 4 subtotal	1840.00	2990.00	2652.00
5. PH in soil by 9045C/E&E SOW	5.00	10.00	5.00
46 samples + 3 Duplicates	X 46(a)	X 46(a)	X 49
Item 5 subtotal	230.00	460.00	245.00
6. BTEX in water by 8021B/E&E SOW	40.00	50.00	40.00
51 samples + 3 MS/MSD pairs	X 51(a)	X 51(a)	X 57
Item 6 subtotal	2040.00	2550.00	2280.00
7. TPH in water by TNRCC1005/E&E SOW	40.00	65.00	51.00
46 samples + 3 MS/MSD pairs	X 46(a)	X 46(a)	X 52
Item 7 subtotal	1840.00	2990.00	2652.00
8. 14 day FAX, 21 day hard copy turnaround time on delivery	NC	NC	NC
9. Full, CLP like deliverable	NC	NC	NC
TOTAL \$	16990.00	20490.00	19529.00

Reasonable of Bids: (a) QC/QC analysis included

All bids are reasonable

Vendor 1 has lowest overall cost

SMALL BUSINESSES: YES/NO, IF YES, ID # ~~NO~~ Yes

SMALL DISADVANTAGED BUSINESS: YES/NO, IF YES, ID# ~~NO~~ Yes

WOMEN-OWNED BUSINESS: YES/NO: NO

COUNTY WHERE CHOSEN VENDOR IS LOCATED: ~~DAVIDSON, TN~~ Montgomery, TX

ANALYTICAL REQUIREMENTS SUMMARY

PROJECT (CASE) NUMBER: 6S180

ANALYSIS REQUESTED: BTEX, PAH, TAL metals and pH in soil; BTEX and TPH in water

NUMBER OF SAMPLES BY MATRIX: 46 soil, 51 water

LAB QA REQUIREMENTS:

MS:

soil: 3 - BTEX, PAH, TAL metals
water 3 - BTEX, TPH

MSD:

soil: 3 - BTEX, PAH
water: 3 - BTEX, TPH

DUP:

soil: 3 - TAL metals, pH

TOTAL NUMBER OF ANALYSES REQUESTED:

BTEX: 52 soil, 57 water
PAH: 52 soil
TAL metals: 52 soil
TPH: 52 soil, 52 water
pH: 49 soil

DELIVERABLE PACKAGE REQUIRED: Full hardcopy data package (CLP-like) are required including all associated QA for all parameters.

DELIVERY SCHEDULE: 14 calendar days verbal/FAX, 21 calendar days hardcopy

BEGINNING SHIP DATE: week of August 3rd

END SHIP DATE: 5 days after beginning of shipment

PROJECT MANAGER: Tom Beer

PROCUREMENT CHEMIST: David Anderson

OTHER:

PLEASE PROVIDE, VERIFY OR MODIFY THE UNIT AND TOTAL BID COSTS FOR THE ABOVE PROJECT AND RETURN SIGNED COPIES OF ALL PAGES TO THE E & E PROCUREMENT CHEMIST BY 11:00 AM, 7/21/98.

LABORATORY

LABORATORY AGENT

DATE

**E & E ANALYTICAL QUOTE REQUEST FORM
BID SPECIFICATION - TO BE COMPLETED BY E & E**

FROM (E & E REQUESTOR): <u>David Anderson</u> OFFICE NAME/ADDRESS: <u>Ecology and Environment</u> <u>1999 Bryan St. Ste. 2000</u> <u>Dallas, TX 75201</u> PHONE #: <u>(214) 220-0318</u> FAX #: <u>(214) 855-1422</u> SITE NAME: <u>6S180</u> PAN #: <u>052601SFG1</u>	TO (LAB CONTACT): _____ LAB NAME/ADDRESS: _____ _____ PHONE #: _____ FAX #: _____ REQUEST DATE: <u>7/20798</u> QUOTE DEADLINE: <u>11:00AM CDT, 7/21/98</u>
SHIPMENT INFORMATION: DATE OF FIRST SHIPMENT: <u>week of August 3rd</u> FREQUENCY OF SHIPMENTS: <u>daily for 5 days</u> # SAMPLES/SHIPMENT: <u>16</u> TOTAL # OF SAMPLES: <u>97</u>	

REQUESTED ANALYSES/BROKEN DOWN BY MATRIX AND PARAMETER

SAME SAMPLE INDICATED BY BRACKETS	# OF SAMPLES	ANALYTICAL PARAMETERS	METHOD #	SAMPLE MATRIX	#/TYPE OF EXTRA QA REQUESTS (MS/MSD, ETC.)	OTHER REQUIREMENTS
	46	BTEX	8021B Mod.	soil	3 pair MS/MSD	see START SOW
	46	PAH	8310	soil	3 pair MS/MSD	see START SOW
	46	TAL Metals	6010B	soil	3 pair MS/DUP	see START SOW
	46	TPH	TNRCC 1005	soil	3 pair MS/MSD	see TNRCC 1005 SOW
	46	pH	9045C	soil	3 duplicates	see START SOW
	51	BTEX	8021B Mod.	water	3 pair MS?MSD	see START SOW
	46	TPH	TNRCC 1005	water	3 pair MS/MSD	see START SOW

- 1) DATA CATEGORY (DEFINITIVE, SCREENING WITH DEFINITIVE CONFIRMATION OR SCREENING ONLY): Definitive
- 2) SAMPLE DISPOSAL BY LAB (YES, NO, OR OTHER): Yes
- 3) TURNAROUND TIME: FAX= 14 calendar days HARDCOPY/ELECT= 21 calendar days [IN CALENDAR OR WORK DAYS]
- 4) REQUIRED QA/QC DELIVERABLE PACKAGE (FULL PACKAGE OR RESULTS ONLY): Full Package REFER TO ATTACHMENT 1 FOR A LIST OF SPECIFIC DOCUMENTS REQUIRED.
- 5) REQUIRED DATA QUALITY: ALL ANALYTICAL DATA MUST MEET CRITERIA DEFINED IN EPA OSWER DIRECTIVE 9360.4-01/9355.901 FOR THE SELECTED DATA CATEGORY AND ANALYTICAL PARAMETER. APPLICABLE EXCERPTS OF THESE DOCUMENTS WILL BE PROVIDED TO THE LAB BY REQUEST.
- 6) ADDITIONAL TERMS AND CONDITIONS APPLICABLE TO SUBCONTRACTOR ANALYTICAL SERVICES UNDER GOVERNMENT CONTRACTS: REFER TO ATTACHMENT 2.

SIGNATURE OF LAB AGENT: _____

**E & E ANALYTICAL QUOTE REQUEST FORM
BID QUOTE - TO BE COMPLETED BY LABORATORY (3)**

SAME SAMPLE INDICATED BY BRACKETS	VOL/ PRES/ CONT (1)	ANALYTICAL PARAMETER/ METHOD #	SAMPLE MATRIX	TURNAROUND TIME VERBAL/ HARDCOPY	UNIT COST FOR SPECIFIED TURNAROUND	# OF SAMPLES	TOTAL ANALYSIS COST (UNIT COST X # SAMPLES)	UNIT COST/TYPE OF EXTRA QA REQUESTS (MS/MSD, ETC.) (2)	# OF EXTRA QA REQUESTS	TOTAL EXTRA QA COST (UNIT COST X # REQUEST)
		BTEX / 8021B Mod.	soil	14/21		46			6	
		PAH / 8310	soil	14/21		46			6	
		TAL Metals / 6010B	soil	14/21		46			6	
		TPH / TNRCC 1005	soil	14/21		46			6	
		pH / 9045C	soil	14/21		46			3	
		BTEX / 8021B Mod.	water	14/21		51			6	
		TPH / TNRCC 1005	water	14/21		46			6	

- (1) INDICATE LAB REQUIREMENTS FOR SIMPLE VOLUMES, PRESERVATIVES, AND CONTAINER USE BRACKETS TO INDICATE OF VOLUMES ARE FOR THE SAME SAMPLE OR ARE REQUIRED FOR SPECIFIC PARAMETERS.
 (2) ONLY APPLICABLE FOR SPECIAL QA REQUESTS - METHOD REQUIRED QA SHOULD BE INCLUDED I SAMPLE ANALYSIS COST.
 (3) REFER TO PAGE 1 FOR SPECIFIC INFORMATION ON REQUESTED ANALYSES.

ADDITIONAL COSTS:

SURCHARGE FOR QA/QC DELIVERABLE PACKAGE (DEFINED ON PG 1 AND ATTACHMENT 1): _____

DISPOSAL COST (SPECIFY IF PER CONTAINER OR FOR TOTAL JOB): _____

OTHER COST: _____ DISCOUNTS: _____

IS VERBAL PO# OK? (CIRCLE ONE): YES NO IS LAB PICKUP INCLUDED? (CIRCLE ONE): YES NO

ARE SAMPLE CONTAINERS/PAPERWORK INCLUDED? (CIRCLE ONE): YES NO

LAB CLASSIFICATION:

SMALL BUSINESS (CIRCLE ONE): YES NO IF YES, ID#: _____
 SMALL DISADVANTAGED BUSINESS (CIRCLE ONE): YES NO IF YES, ID#: _____
 WOMAN-OWNED BUSINESS (CIRCLE ONE): YES NO IF YES, ID#: _____
 MINORITY-OWNED BUSINESS (CIRCLE ONE): YES NO IF YES, ID#: _____

BID TOTAL: _____

**PDP**

Analytical Services

1680 Lake Front Circle, Suite B
The Woodlands, Texas 77380

Facsimile Transmittal Sheet

Date: 7/20/98Time: 1455Pages (Including this page): 4To: DAVID ANDERSONCompany: E&EFax: 214, 855-1422From: MARK BOURGEOISTitle: ACC MGRNotes: RFP, Resubmittals.ThanksM.B.B.

If this Fax message is received poorly or incomplete, please notify us at:

Phone: (281) 363-2233 Fax: (281) 298-5784

☐ Urgent ☒ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

**E & E ANALYTICAL QUOTE REQUEST FORM
BID SPECIFICATION - TO BE COMPLETED BY E & E**

FROM (E & E REQUESTOR): <u>David Anderson</u>		TO (LAB CONTACT): <u>Mark Bourgeois</u>	
OFFICE NAME/ADDRESS: <u>Ecology and Environment</u> <u>1999 Bryan St. Ste. 2000</u> <u>Dallas, TX 75201</u>		LAB NAME/ADDRESS: <u>PDP Analytical Services</u> <u>1660 Lake Front Circle, Suite B The Woodlands, TX 77380</u>	
PHONE #: <u>(214) 220-0318</u> FAX #: <u>(214) 855-1422</u>		PHONE #: <u>281-363-2233</u> FAX #: <u>281-298-6784</u>	
SITE NAME: <u>BS180</u> PAN #: <u>052801SFG1</u>		REQUEST DATE: <u>7/20/98</u> QUOTE DEADLINE: <u>11:00AM CDT, 7/21/98</u>	
SHIPMENT INFORMATION: DATE OF FIRST SHIPMENT: <u>week of August 3rd</u> FREQUENCY OF SHIPMENTS: <u>daily for 5 days</u> # SAMPLES/SHIPMENT: <u>16</u> TOTAL # OF SAMPLES: <u>87</u>			

REQUESTED ANALYSES/BROKEN DOWN BY MATRIX AND PARAMETER

SAME SAMPLE INDICATED BY BRACKETS	# OF SAMPLES	ANALYTICAL PARAMETERS	METHOD #	SAMPLE MATRIX	#/TYPE OF EXTRA QA REQUESTS (MS/MSD, ETC.)	OTHER REQUIREMENTS
	46	BTEX	8021B Mod.	soil	3 pair MS/MSD	see START SOW
	46	PAH	8310	soil	3 pair MS/MSD	see START SOW
	46	TAL Metals	6010B	soil	3 pair MS/DUP	see START SOW
	46	TPH	TNRCC 1005	soil	3 pair MS/MSD	see TNRCC 1005 SOW
	46	pH	8045C	soil	3 duplicates	see START SOW
	51	BTEX	8021B Mod.	water	3 pair MS/MSD	see START SOW
	46	TPH	TNRCC 1005	water	3 pair MS/MSD	see START SOW

- 1) DATA CATEGORY (DEFINITIVE, SCREENING WITH DEFINITIVE CONFIRMATION OR SCREENING ONLY): Definitive
- 2) SAMPLE DISPOSAL BY LAB (YES, NO, OR OTHER): Yes
- 3) TURNAROUND TIME: FAX= 14 calendar days HARDCOPY/ELECT= 21 calendar days (IN CALENDAR OR WORK DAYS)
- 4) REQUIRED QA/QC DELIVERABLE PACKAGE (FULL PACKAGE OR RESULTS ONLY): Full Package REFER TO ATTACHMENT 1 FOR A LIST OF SPECIFIC DOCUMENTS REQUIRED.
- 5) REQUIRED DATA QUALITY: ALL ANALYTICAL DATA MUST MEET CRITERIA DEFINED IN EPA OSWER DIRECTIVE 8380.4-01/0355.001 FOR THE SELECTED DATA CATEGORY AND ANALYTICAL PARAMETER. APPLICABLE EXCERPTS OF THESE DOCUMENTS WILL BE PROVIDED TO THE LAB BY REQUEST.
- 6) ADDITIONAL TERMS AND CONDITIONS APPLICABLE TO SUBCONTRACTOR ANALYTICAL SERVICES UNDER GOVERNMENT CONTRACTS: REFER TO ATTACHMENT 2.

SIGNATURE OF LAB AGENT: Mark Bourgeois 7/20/98

ANALYTICAL REQUIREMENTS SUMMARY**PROJECT (CASE) NUMBER:** 6S180**ANALYSIS REQUESTED:** BTEX, PAH, TAL metals and pH in soil; BTEX and TPH in water**NUMBER OF SAMPLES BY MATRIX:** 46 soil, 51 water**LAB QA REQUIREMENTS:****MS:**soil: 3 - BTEX, PAH, TAL metals
water 3 - BTEX, TPH**MSD:**soil: 3 - BTEX, PAH
water: 3 - BTEX, TPH**DUP:**

soil: 3 - TAL metals, pH

TOTAL NUMBER OF ANALYSES REQUESTED:

BTEX: 52 soil, 57 water

PAH: 52 soil

TAL metals: 52 soil

TPH: 52 soil, 52 water

pH: 49 soil

DELIVERABLE PACKAGE REQUIRED: Full hardcopy data package (CLP-like) are required including all associated QA for all parameters.**DELIVERY SCHEDULE:** 14 calendar days verbal/FAX, 21 calendar days hardcopy**BEGINNING SHIP DATE:** week of August 3rd**END SHIP DATE:** 5 days after beginning of shipment**PROJECT MANAGER:** Tom Beer**PROCUREMENT CHEMIST:** David Anderson**OTHER:****PLEASE PROVIDE, VERIFY OR MODIFY THE UNIT AND TOTAL BID COSTS FOR THE ABOVE PROJECT AND RETURN SIGNED COPIES OF ALL PAGES TO THE E & E PROCUREMENT CHEMIST BY 11:00 AM, 7/21/98.****LABORATORY****LABORATORY AGENT****DATE**

E & E ANALYTICAL QUOTE REQUEST FORM
BID QUOTE - TO BE COMPLETED BY LABORATORY (3)

SAME SAMPLE INDICATED BY BRACKETS	VOL/ PRES/ CONT (1)	ANALYTICAL PARAMETER/ METHOD #	SAMPLE MATRIX	TURNAROUND TIME VERBAL/ HARDCOPY	UNIT COST FOR SPECIFIED TURNAROUND	# OF SAMPLES	TOTAL ANALYSIS COST (UNIT COST X # SAMPLES)	UNIT COST/TYPE OF EXTRA QA REQUESTS (MS/MSD, ETC.) (2)	# OF EXTRA QA REQUESTS	TOTAL EXTRA QA COST (UNIT COST X # REQUEST)
		BTEX / 8021B Mod.	soil	14/21	40. ⁰⁰	46	1840. ⁰⁰	None	6	None
		PAH / 8310	soil	14/21	110. ⁰⁰	46	5060. ⁰⁰		6	
		TAL Metals / 6010B	soil	14/21	90. ⁰⁰	46	4140. ⁰⁰		6	
		TPH / TNRCC 1005	soil	14/21	40. ⁰⁰	46	1840. ⁰⁰		6	
		pH / 8045C	soil	14/21	5. ⁰⁰	46	230. ⁰⁰		3	
		BTEX / 8021B Mod.	water	14/21	40. ⁰⁰	51	2040. ⁰⁰		6	
		TPH / TNRCC 1005	water	14/21	40. ⁰⁰	46	1840. ⁰⁰		6	

(1) INDICATE LAB REQUIREMENTS FOR SAMPLE VOLUMES, PRESERVATIVES, AND CONTAINER USE BRACKETS TO INDICATE OF VOLUMES ARE FOR THE SAME SAMPLE OR ARE REQUIRED FOR SPECIFIC PARAMETERS.

(2) ONLY APPLICABLE FOR SPECIAL QA REQUESTS - METHOD REQUIRED QA SHOULD BE INCLUDED I SAMPLE ANALYSIS COST.

(3) REFER TO PAGE 1 FOR SPECIFIC INFORMATION ON REQUESTED ANALYSES.

ADDITIONAL COSTS:

SURCHARGE FOR QA/QC DELIVERABLE PACKAGE (DEFINED ON PG 1 AND ATTACHMENT 1):

DISPOSAL COST (SPECIFY IF PER CONTAINER OR FOR TOTAL JOB):

OTHER COST:

IS VERBAL PO# OK? (CIRCLE ONE): ☒ YES ☐ NO

ARE SAMPLE CONTAINERS/PAPERWORK INCLUDED? (CIRCLE ONE): YES ☒ NO

DISCOUNTS:

IS LAB PICKUP INCLUDED? (CIRCLE ONE): YES ☒ NO

LAB CLASSIFICATION:

SMALL BUSINESS (CIRCLE ONE):

SMALL DISADVANTAGED BUSINESS (CIRCLE ONE):

WOMAN-OWNED BUSINESS (CIRCLE ONE):

MINORITY-OWNED BUSINESS (CIRCLE ONE):

☒ YES ☐ NO IF YES, ID#: _____
☒ YES ☐ NO IF YES, ID#: _____
☒ YES ☐ NO IF YES, ID#: _____
☒ YES ☐ NO IF YES, ID#: _____

BID TOTAL: 16,990.00



ANALYTICAL SERVICES CENTER
 Ecology and Environment, Inc. (E & E)
 4493 Walden Avenue
 Lancaster, New York 14086
 Telephone: (716) 685-8080 Fax: (716) 685-0852

International Specialists in the Environment

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 quality analytical results in a timely,
 efficient, and economical manner.**

TELECOPIER TRANSMISSION FORM

DATE:	TIME:
PROJECT NUMBER:	TOTAL NUMBER OF PAGES (Including Transmission Form): 4
TO: DAVID ANDERSON	
COMPANY: E&E DALLAS	
TELECOPIER:	
FROM: STROEL JR	

SPECIAL INSTRUCTIONS:

FULL SERVICE CAPABILITY:

Atomic Absorption Analysis
 Inductively Coupled Plasma Analysis
 Gas Chromatography
 Gas Chromatography/Mass Spectrometry
 High Performance Liquid Chromatography
 Ion Chromatography, Fourier Transform Infra-red
 Ultraviolet/Visible Spectroscopy
 Air (Canisters, Bags, Tenax, Charcoal)

Chlorophenols, AOX
 Immunoassay
 Nitroaromatics (Explosives), Chemical Agents
 NPDES/SPDES
 Soil Gas Screening (Field or Laboratory)
 TCLP
 TPH-BETX

START VI-14

ANALYTICAL REQUIREMENTS SUMMARY

PROJECT (CASE) NUMBER: 65180

ANALYSIS REQUESTED: BTEX, PAH, TAL metals and pH in soil; BTEX and TPH in water

NUMBER OF SAMPLES BY MATRIX: 46 soil, 51 water

LAB QA REQUIREMENTS:

MS:

soil: 3 - BTEX, PAH, TAL metals
water 3 - BTEX, TPH

MSD:

soil: 3 - BTEX, PAH
water: 3 - BTEX, TPH

DUP:

soil: 3 - TAL metals, pH

TOTAL NUMBER OF ANALYSES REQUESTED:

BTEX: 52 soil, 51 water
PAH: 52 soil
TAL metals: 52 soil
TPH: 52 soil, 52 water
pH: 49 soil

DELIVERABLE PACKAGE REQUIRED: Full hardcopy data package (CLP-like) are required including all associated QA for all parameters.

DELIVERY SCHEDULE: 14 calendar days verbal/FAX, 21 calendar days hardcopy

BEGINNING SHIP DATE: week of August 3rd

END SHIP DATE: 5 days after beginning of shipment

PROJECT MANAGER: Tom Beer

PROCUREMENT CHEMIST: David Anderson

OTHER:

PLEASE PROVIDE, VERIFY OR MODIFY THE UNIT AND TOTAL BID COSTS FOR THE ABOVE PROJECT AND RETURN SIGNED COPIES OF ALL PAGES TO THE E & E PROCUREMENT CHEMIST BY 11:00 AM, 7/21/98.

Ecology + Environment Inc
LABORATORY

[Signature]
LABORATORY AGENT

7/21/98
DATE

JUL 21 '98 11:04 FR E&E/ASC INC.
U/40/80 10.46 PM 2.00 1.00

7166850852 TO DALLAS

2.03

1) DATA CATEGORY (DEFINITIVE, SCREENING WITH DEFINITIVE CONFIRMATION OR SCREENING ONLY): Definitive

2) SAMPLE DISPOSAL BY LAB (YES, NO, OR OTHER): Yes

3) TURNAROUND TIME: FAX= 14 calendar days HARDCOPY/ELECT= 21 calendar days [IN CALENDAR OR WORK DAYS]

4) REQUIRED QA/QC DELIVERABLE PACKAGE (FULL PACKAGE OR RESULTS ONLY): Full Package REFER TO ATTACHMENT 1 FOR A LIST OF SPECIFIC DOCUMENTS REQUIRED.

5) REQUIRED DATA QUALITY: ALL ANALYTICAL DATA MUST MEET CRITERIA DEFINED IN EPA OSWER DIRECTIVE 9360.4-01/9355.801 FOR THE SELECTED DATA CATEGORY AND ANALYTICAL PARAMETER. APPLICABLE EXCERPTS OF THESE DOCUMENTS WILL BE PROVIDED TO THE LAB BY REQUEST.

6) ADDITIONAL TERMS AND CONDITIONS APPLICABLE TO SUBCONTRACTOR ANALYTICAL SERVICES UNDER GOVERNMENT CONTRACTS: REFER TO ATTACHMENT 2.

PAGE 1 of 2

E & E ANALYTICAL QUOTE REQUEST FORM
BID QUOTE - TO BE COMPLETED BY LABORATORY (3)

SAME SAMPLE INDICATED BY BRACKETS	VOL/ PRES/ CONT (1)	ANALYTICAL PARAMETER/ METHOD #	SAMPLE MATRIX	TURNAROUND TIME VERBAL/ HARDCOPY	UNIT COST FOR SPECIFIED TURNAROUND	# OF SAMPLES	TOTAL ANALYSIS COST (UNIT COST X # SAMPLES)	UNIT COST/TYPE OF EXTRA QA RE-QUESTS (MS/MSD, ETC.) (2)	# OF EXTRA QA RE-QUESTS	TOTAL EXTRA QA COST (UNIT COST X # REQUEST)
		BTX / 8021B Mod.	soil	14/21	50	46	2300		6	
		PAH / 8310	soil	14/21	110	46	5060		6	
		TAL Metals / 60108	soil	14/21	90	46	4140		6	
		TPH / TNRCC 1005	soil	14/21	65	46	2990		6	
		pH / 9045C	soil	14/21	10	46	460		3	
		BTX / 8021B Mod.	water	14/21	50	51	2550		6	
		TPH / TNRCC 1005	water	14/21	65	46	2990		6	

(1) INDICATE LAB REQUIREMENTS FOR SIMPLE VOLUMES, PRESERVATIVES, AND CONTAINER USE BRACKETS TO INDICATE OF VOLUMES ARE FOR THE SAME SAMPLE OR ARE REQUIRED FOR SPECIFIC PARAMETERS.

(2) ONLY APPLICABLE FOR SPECIAL QA REQUESTS - METHOD REQUIRED QA SHOULD BE INCLUDED I SAMPLE ANALYSIS COST.

(3) REFER TO PAGE 1 FOR SPECIFIC INFORMATION ON REQUESTED ANALYSES.

ADDITIONAL COSTS:

SURCHARGE FOR QA/QC DELIVERABLE PACKAGE (DEFINED ON PG 1 AND ATTACHMENT 1): N/A

DISPOSAL COST (SPECIFY IF PER CONTAINER OR FOR TOTAL JOB): Tax

OTHER COST: _____

DISCOUNTS: _____

IS VERBAL PO# OK? (CIRCLE ONE): YES NO

IS LAB PICKUP INCLUDED? (CIRCLE ONE): YES NO

ARE SAMPLE CONTAINERS/PAPERWORK INCLUDED? (CIRCLE ONE): YES NO

LAB CLASSIFICATION:

SMALL BUSINESS (CIRCLE ONE):

YES NO IF YES, ID#: _____

SMALL DISADVANTAGED BUSINESS (CIRCLE ONE):

YES NO IF YES, ID#: _____

WOMAN-OWNED BUSINESS (CIRCLE ONE):

YES NO IF YES, ID#: _____

MINORITY-OWNED BUSINESS (CIRCLE ONE):

YES NO IF YES, ID#: _____

BID TOTAL: 20 490

SPECIALIZED ASSAYS

ID: 6157260954

JUL 20 '98 9:15 No. 003 P. 02

PROJECT (CASE) NUMBER: 60180

ANALYSIS REQUESTED: STEEL, PAH, TAL, HEMS AND PH, 100% STEEL AND TPH IN WHEAT

NUMBER OF SAMPLES BY MATRIX: 46 and 11 wheat

LABORATORY REQUIREMENTS:

MIL:
MIL 1 - STEEL, PAH, TAL, HEMS
MIL 2 - STEEL, TPHMIL 3:
MIL 3 - STEEL, PAH
MIL 3 - STEEL, TPHMIL 4:
MIL 4 - TAL, HEMS, PH

TOTAL NUMBER OF ANALYSES REQUESTED:

STEEL: 23 MIL 1, 100%
PAH: 42 MIL
TAL: HEMS: 100%
TPH: 11 MIL 2, 11 wheat
PH: 46 MIL

DELIVERABLE PACKAGE REQUIRED: Full laboratory data package (CLP files) and required including all associated QA for all parameters

DELIVERY SCHEDULE: 14 calendar days without PAH, 21 calendar days laboratory

RECEIVING HELP DATE: week of August 3rd

INVENTORY DATE: 1 day after beginning of shipment

PROJECT MANAGER: Tom Baw

PROCUREMENT CONTACT: David Anderson

OTHER:

PLEASE PROVIDE, VERIFY OR MODIFY THE FIRST AND FINAL BID CRYSTALS THE THE ABOVE
PROJECT AND RETURN SIGNED COPIES OF ALL PAGES TO THE
E&S PROCUREMENT CONTACT BY 11:00 AM 7/21/98Specialist on Arcane, Inc.
LABORATORYJerry Burgess
LABORATORY MANAGER7/21/98
E&S

**E & E ANALYTICAL CENTER REQUEST FORM
AND SPECIFICATIONS - TO BE COMPLETED BY E & E**

PROJECT NAME: 1002 Bldg. 200 ANALYST: John A. Smith
 CLIENT: Rockwell International ADDRESS: 1002 Bldg. 200, 2000
 PHONE: 714-771-1177 FAX: 714-771-1177
 REQUEST DATE: 10/20/98 ANALYST: John A. Smith
 SITE NAME: 1002 Bldg. 200 ANALYST: John A. Smith

SHIPMENT INFORMATION
 DATE OF FIRST SHIPMENT: 10/20/98 FREQUENCY OF SHIPMENTS: 1 SHIPMENT: 1 TOTAL SCK SAMPLES: 1

REQUESTED ANALYSIS/TESTS/SCREENING DOWN BY MATRIX AND PARAMETER

SAMPLE NO.	PARAMETER	MATRIX	ANALYST	DATE	TYPE OF EXTRA ANALYSIS (REQUIRED ITC)	OTHER REQUIREMENTS
48	TEX	SOIL	10/20/98	10/20/98	3rd - VIBRO	1st - START SOIL
49	TEX	SOIL	10/20/98	10/20/98	3rd - VIBRO	1st - START SOIL
48	TEX	SOIL	10/20/98	10/20/98	3rd - VIBRO	1st - START SOIL
48	TEX	SOIL	10/20/98	10/20/98	3rd - VIBRO	1st - START SOIL
48	TEX	SOIL	10/20/98	10/20/98	3rd - VIBRO	1st - START SOIL
48	TEX	SOIL	10/20/98	10/20/98	3rd - VIBRO	1st - START SOIL
48	TEX	SOIL	10/20/98	10/20/98	3rd - VIBRO	1st - START SOIL
48	TEX	SOIL	10/20/98	10/20/98	3rd - VIBRO	1st - START SOIL

- 1) DATA CATEGORY (DEFINITE SCREENING WITH DEFINITIVE CONFIRMATION OR SCREENING ONLY) DEFINITIVE
 2) SAMPLE SUBSTRATE (YES, NO, OR OTHER) YES
 3) TURNAROUND TIME 10/20/98 (REQUIRED) 10/20/98 IN CALENDAR WORK DAYS
 4) REQUIRED ANALYSIS (REQUIRED FULL PACKAGE OR REDUCED ONLY) REDUCED REFER TO ATTACHMENT 1 FOR A LIST OF SPECIFIC
 5) REQUIRED ANALYSIS (REQUIRED FULL PACKAGE OR REDUCED ONLY) REDUCED REFER TO ATTACHMENT 1 FOR A LIST OF SPECIFIC
 6) ANALYSIS (REQUIRED FULL PACKAGE OR REDUCED ONLY) REDUCED REFER TO ATTACHMENT 1 FOR A LIST OF SPECIFIC
 7) ADDITIONAL TESTING (CONDITIONS APPLICABLE TO SUBCONTRACTOR ANALYSIS ONLY) NO REFER TO ATTACHMENT 2

SIGNATURE OF AS AGENT: Jerry D. Burgess

E and E ANALYTICAL QUOTE REQUEST FORM
BID QUOTE - TO BE COMPLETED BY LABORATORY (1)

SAME SAMPLES INDICATED BY BRACKETS	VOL/ PRES/ CONT (1)	ANALYTICAL PARAMETER/ METHOD	SAMPLE MATRIX	TURNAROUND TIME: VERBAL/ HARD COPY	UNIT COST FOR SPECIFIED TURNAROUND	# OF SAMPLES	TOTAL ANALYSIS COST (UNIT COST X # SAMPLES)	UNIT COST/TYPER OF EXTRA QA REQUESTS (MSARD, ETC.) (2)	# OF EXTRA QA REQUESTS	TOTAL EXTRA QA COST (UNIT COST X # REQUEST)
		BTEX (8021)	Soil	14/21	40.00	46	1,840.00	40.00	6	240.00
		PAH (8310)	Soil	14/21	95.00	46	4,170.00	95.00	6	570.00
		TAJ. Metals	Soil	14/21	90.00	46	4,140.00	90.00	6	540.00
		TPH (1005)	Soil	14/21	51.00	46	2,346.00	51.00	6	306.00
		pH (9045)	Soil	14/21	3.00	46	230.00	5.00	3	15.00
		BTEX (8021)	Water	14/21	40.00	51	2,040.00	40.00	6	240.00
		TPH (1005)	Water	14/21	51.00	46	2,346.00	51.00	6	306.00

(1) INDICATE LAB REQUIREMENTS FOR SAMPLE VOLUMES, PRESERVATIVES, AND CONTAINER USE (BRACKETS TO INDICATE IF VOLUMES ARE FOR THE SAME SAMPLE)

(2) ARE REQUIRED FOR SPECIFIC PARAMETERS

(2) ONLY APPLICABLE FOR SPECIAL QA REQUESTS - METHOD REQUIRED QA SHOULD BE INCLUDED W/ SAMPLE ANALYSIS COST

(3) REFER TO PAGE 1 FOR SPECIFIC INFORMATION ON REQUESTED ANALYSIS

ADDITIONAL COSTS:

SURCHARGE FOR QUOTE DELIVERABLE PACKAGE (DEFERRED ON P.1 AND ATTACHMENT 1)

DISPOSAL COST (SPECIFY IF PER CONTAINER OR PER TOTAL JOB)

OTHER COST:

IS VERBAL FOR NO YES

ARE SAMPLE CONTAINERS/PAPERWORK INCL. (DELT)

YES

DISCOUNT

IS LAB PICKUP INCLUDED

NONE

NONE

APPLIED

YES

LAB CLASSIFICATION

SMALL BUSINESS

NO

SMALL (REAL ADVANTAGE) BUSINESS

NO

WOMAN-OWNED BUSINESS

NO

MINORITY-OWNED BUSINESS

NO

INDICATE PARISH/COUNTY AND STATE BUSINESS IS LOCATED IN

DAVIDSON, TN

BID TOTAL:

19,529.00

I HAVE READ AND AGREE TO ALL TERMS OF THIS BID REQUEST, ATTACHMENTS AND QUOTE.

PLEASE SIGN AND RETURN BOTH BID SPECIFICATION AND BID QUOTE SHEETS

SIGNATURE OF LAB AGENT:

Jerry D. Burgess

LAB NAME:

SPECIALIZED ASSAYS, INC.

DRAFT 7/14/98

ANALYTICAL OBJECTIVES WORKSHEET

I. PROJECT INFORMATION

Site Name: WILCOX REFINERY (Phase 2) CERCLIS ID: OKD001010917

Site Location: Bristow OK Project TDD#: 06-98-03-0009

START PM: Tom Beer Project PAN: 052601SFX

EPA TM: Don Smith Request/Due Dates: 7/9/98/

1. SOURCE OF FUNDING (Circle One): CERCLA, (OPA) Other: _____
2. INTEGRATED DATA USES (Circle All That Apply): SI, ESI, RI, (Removal Assessment) EE/CA, Disposal, Enforcement, Other: _____
3. TYPE OF LAB (Circle All That Apply): CLP RAS, (START Subcontract (External or E & F ASC)) EPA Region 6 Lab, ERT, Mobile Lab, Field Screening, NEIC, Other Fed, Other State, Other EPA Contractor [ERCS/ERRS], Other: _____
4. DATA CATEGORY (Circle One): Screening, (Definitive) Screening with Definitive Confirmation, Other: _____
5. DATA VALIDATION REQUIREMENTS (Circle One): (OSWER) CLP, Expanded CLP, None, Other: _____
6. DATA PACKAGE REQUIRED (Circle One): Results Only, (Full Package ("CLP-Like")) CLP Protocol and Package, Other: _____
7. ANTICIPATED INITIAL SAMPLING/SHIPMENT DATES: _____
8. FREQUENCY/DATES OF SUBSEQUENT SHIPMENTS: daily / 5 days
9. ESTIMATED NUMBER OF SAMPLES PER SHIPMENT: 16 (8 soil + 8 water) + QC
10. TURNAROUND TIME - VERBAL/FAX (In Work or Calendar Days):
14 Calendar days
11. TURNAROUND TIME - HARD COPY/ELECT (In Work or Calendar Days):
21 Calendar days
12. SAMPLE DISPOSAL REQUIREMENTS (Circle One): (Lab Provides) Return to Site, Other: _____
13. TRANSPORT OF SAMPLES (Circle One): Lab Pick-up, Drop Off, (Ship) Other: _____

Approval/EPA TM Signature: Ronald P. Smith DATE: 7/15/98

II. SAMPLE INFORMATION

Complete the following series of questions for each group of samples that varies by **MATRIX** or **REQUESTED ANALYTICAL PARAMETER(S)**. Use additional pages if needed.

SAMPLE GROUP NUMBER 3

1. NUMBER OF SAMPLES

- a. Number of field samples (including test and background samples) to be submitted: 41 (1 per boring)
- b. Number and type of field QA samples (replicates, trip, field and rinsate blanks) to be submitted: 10% D (5), TB@1/VOA cooler (5), ER (0)
- c. Number and type of laboratory QA analyses required (i.e., MS/MSD pairs, spikes, duplicates, etc.): 1 ea. per SDG (2 pair = 4) LO
- d. Total number of sample requests (field samples [1a] + field QA samples [1b] + lab QA requests [1c]): 41 + (5+5) + 4 = 55

2. MATRIX OF SAMPLES (circle one): air, water, (soil) waste (drum, tank, pit), wipe, other

3. SAMPLE COMPOSITION (indicate number of each): 41 grab; composite (____) aliquots)

4. SOIL SAMPLE DEPTH (indicate number of each): _____ surface (____) depth) 41 subsurface (2-10 depth); other _____

5. ANALYTICAL PARAMETERS

Record all analytical parameters that will be requested for this group of samples. Parameters may include: specific compounds; groups of compounds (such as TAL metals, TCL VOAs, TCL BNAs, TCL pesticides/PCBs); RCRA characteristics; or miscellaneous tests (such as asbestos, BTU, COD, TSS).

PARAMETER	BTEX	PAHs	Metals (23)	TPH	pH	
DESIRED METHOD(S)	GC 8021B Mod.	HPLC 8310	ICP 6010B	GC TNRCC 1005	electro. 9045C	
MINIMUM DETECTION LIMIT	1 mg/kg	0.1 mg/kg	10 mg/kg	10 mg/kg	—	
EXPECTED CONC. LEVEL (LOW/MED/HIGH)	Low	Low	Med.	Med.	Med.	

Approval/EPA TM Signature: Norvald P. Smith

DATE: 7/15/98

II. SAMPLE INFORMATION

Complete the following series of questions for each group of samples that varies by **MATRIX** or **REQUESTED ANALYTICAL PARAMETER(S)**. Use additional pages if needed.

SAMPLE GROUP NUMBER 4

1. NUMBER OF SAMPLES

- Number of field samples (including test and background samples) to be submitted: 41 (1 per boring)
- Number and type of field QA samples (replicates, trip, field and rinsate blanks) to be submitted: 10% D (5), TB (0, see soils), ER (0)
- Number and type of laboratory QA analyses required (i.e., MS/MSD pairs, spikes, duplicates, etc.): 1 ea. per SDG (2 pair = 4) 10
- Total number of sample requests (field samples [1a] + field QA samples [1b] + lab QA requests [1c]): 41 + (5) + 4 = 50

2. MATRIX OF SAMPLES (circle one): air, water soil, waste (drum, tank, pit), wipe, other

3. SAMPLE COMPOSITION (indicate number of each): 41 grab: _____ composite (_____ aliquots)

4. ~~SOIL~~ ^{WATER} SAMPLE DEPTH (indicate number of each): _____ surface (_____ depth) 41 subsurface (_____ depth); other water table

5. ANALYTICAL PARAMETERS

Record all analytical parameters that will be requested for this group of samples. Parameters may include: specific compounds; groups of compounds (such as TAL metals, TCL VOAs, TCL BNAs, TCL pesticides/PCBs); RCRA characteristics; or miscellaneous tests (such as asbestos, BTU, COD, TSS).

PARAMETER	BTEX	TPH				
DESIRED METHOD(S)	GC 8021 B Mod.	GC TNRCC 1005				
MINIMUM DETECTION LIMIT	0.01 mg/L	1 mg/L				
EXPECTED CONC. LEVEL (LOW/MED/HIGH)	Low	Med.				

Approval/EPA TM Signature: Ronald P. Smith DATE: 7/15/98

ecology and environment, inc.

1999 Bryan St., Suite 2000
Dallas, TX 75201
(214) 220-0318

International Specialists in the Environment
FAX: (214) 855-1422

FAX TRANSMISSION FORM

Date: July 20, 1998

Time:

Job Charge: 052601SFG1

Total pages: 4
(including transmission form)

To: Caryn Wojtowicz

Company: Ecology and Environment, Inc. Analytical Service Center

Fax phone: 716-685-0852

From: David Anderson

IF THIS FAX IS INCOMPLETELY RECEIVED OR IS ILLEGIBLE, PLEASE CALL FOR RETRANSMISSION.

Please disregard the previous analytical quote for project 6S180 sent this morning and replace it with this one.

Thank You.

**E & E ANALYTICAL QUOTE REQUEST FORM
BID SPECIFICATION - TO BE COMPLETED BY E & E**

FROM (E & E REQUESTOR): <u>David Anderson</u> OFFICE NAME/ADDRESS: <u>Ecology and Environment</u> <u>1999 Bryan St. Ste. 2000</u> <u>Dallas, TX 75201</u> PHONE #: <u>(214) 220-0318</u> FAX #: <u>(214) 855-1422</u> SITE NAME: <u>6S180</u> PAN #: <u>052601SFG1</u>	TO (LAB CONTACT): <u>Caryn Wojtowicz</u> LAB NAME/ADDRESS: <u>Ecology and Environment, Inc. Analytical Service Center</u> <u>4493 Walden Avenue Lancaster, NY 14086</u> PHONE #: <u>716-685-8080</u> FAX #: <u>716-685-0852</u> REQUEST DATE: <u>7/20/98</u> QUOTE DEADLINE: <u>11:00AM CDT, 7/21/98</u>
SHIPMENT INFORMATION: DATE OF FIRST SHIPMENT: <u>week of August 3rd</u> FREQUENCY OF SHIPMENTS: <u>daily for 5 days</u> # SAMPLES/SHIPMENT: <u>16</u> TOTAL # OF SAMPLES: <u>97</u>	

REQUESTED ANALYSES/BROKEN DOWN BY MATRIX AND PARAMETER

SAME SAMPLE INDICATED BY BRACKETS	# OF SAMPLES	ANALYTICAL PARAMETERS	METHOD #	SAMPLE MATRIX	#/TYPE OF EXTRA QA REQUESTS (MS/MSD, ETC.)	OTHER REQUIREMENTS
	46	BTEX	8021B Mod.	soil	3 pair MS/MSD	see START SOW
	46	PAH	8310	soil	3 pair MS/MSD	see START SOW
	46	TAL Metals	6010B	soil	3 pair MS/DUP	see START SOW
	46	TPH	TNRCC 1005	soil	3 pair MS/MSD	see TNRCC 1005 SOW
	46	pH	9045C	soil	3 duplicates	see START SOW
	51	BTEX	8021B Mod.	water	3 pair MS/MSD	see START SOW
	46	TPH	TNRCC 1005	water	3 pair MS/MSD	see START SOW

- 1) DATA CATEGORY (DEFINITIVE, SCREENING WITH DEFINITIVE CONFIRMATION OR SCREENING ONLY): Definitive
- 2) SAMPLE DISPOSAL BY LAB (YES, NO, OR OTHER): Yes
- 3) TURNAROUND TIME: FAX= 14 calendar days HARDCOPY/ELECT= 21 calendar days [IN CALENDAR OR WORK DAYS]
- 4) REQUIRED QA/QC DELIVERABLE PACKAGE (FULL PACKAGE OR RESULTS ONLY): Full Package REFER TO ATTACHMENT 1 FOR A LIST OF SPECIFIC DOCUMENTS REQUIRED.
- 5) REQUIRED DATA QUALITY: ALL ANALYTICAL DATA MUST MEET CRITERIA DEFINED IN EPA OSWER DIRECTIVE 9360.4-01/9355.901 FOR THE SELECTED DATA CATEGORY AND ANALYTICAL PARAMETER. APPLICABLE EXCERPTS OF THESE DOCUMENTS WILL BE PROVIDED TO THE LAB BY REQUEST.
- 6) ADDITIONAL TERMS AND CONDITIONS APPLICABLE TO SUBCONTRACTOR ANALYTICAL SERVICES UNDER GOVERNMENT CONTRACTS: REFER TO ATTACHMENT 2.

SIGNATURE OF LAB AGENT: _____

ecology and environment, inc.

1999 Bryan St., Suite 2000
Dallas, TX 75201
(214) 220-0318

International Specialists in the Environment
FAX: (214) 855-1422

FAX TRANSMISSION FORM

Date: July 20, 1998

Time:

Job Charge: 052601SFG1

Total pages: 4
(including transmission form)

To: Jerry Burgess

Company: Specialized Assays, Inc.

Fax phone: 615-726-3404

From: David Anderson

IF THIS FAX IS INCOMPLETELY RECEIVED OR IS ILLEGIBLE, PLEASE CALL FOR RETRANSMISSION.

Please disregard the previous analytical quote for project 6S180 sent this morning and replace it with this one.

Thank You.

**E & E ANALYTICAL QUOTE REQUEST FORM
BID SPECIFICATION - TO BE COMPLETED BY E & E**

FROM (E & E REQUESTOR): <u>David Anderson</u> OFFICE NAME/ADDRESS: <u>Ecology and Environment</u> <u>1999 Bryan St. Ste. 2000</u> <u>Dallas, TX 75201</u> PHONE #: <u>(214) 220-0318</u> FAX #: <u>(214) 855-1422</u> SITE NAME: <u>6S180</u> PAN #: <u>052601SFG1</u>	TO (LAB CONTACT): <u>Jerry Burgess</u> LAB NAME/ADDRESS: <u>Specialized Assays, Inc.</u> <u>2960 Foster Creighton Dr. Nashville, TN 37204-0566</u> PHONE #: <u>615-726-0177</u> FAX #: <u>615-726-3404</u> REQUEST DATE: <u>7/20/98</u> QUOTE DEADLINE: <u>11:00AM CDT, 7/21/98</u>
SHIPMENT INFORMATION: DATE OF FIRST SHIPMENT: <u>week of August 3rd</u> FREQUENCY OF SHIPMENTS: <u>daily for 5 days</u> # SAMPLES/SHIPMENT: <u>16</u> TOTAL # OF SAMPLES: <u>97</u>	

REQUESTED ANALYSES/BROKEN DOWN BY MATRIX AND PARAMETER

SAME SAMPLE INDICATED BY BRACKETS	# OF SAMPLES	ANALYTICAL PARAMETERS	METHOD #	SAMPLE MATRIX	#/TYPE OF EXTRA QA REQUESTS (MS/MSD, ETC.)	OTHER REQUIREMENTS
	46	BTEX	8021B Mod.	soil	3 pair MS/MSD	see START SOW
	46	PAH	8310	soil	3 pair MS/MSD	see START SOW
	46	TAL Metals	6010B	soil	3 pair MS/DUP	see START SOW
	46	TPH	TNRCC 1005	soil	3 pair MS/MSD	see TNRCC 1005 SOW
	46	pH	9045C	soil	3 duplicates	see START SOW
	51	BTEX	8021B Mod.	water	3 pair MS/MSD	see START SOW
	46	TPH	TNRCC 1005	water	3 pair MS/MSD	see START SOW

- 1) DATA CATEGORY (DEFINITIVE, SCREENING WITH DEFINITIVE CONFIRMATION OR SCREENING ONLY): Definitive
- 2) SAMPLE DISPOSAL BY LAB (YES, NO, OR OTHER): Yes
- 3) TURNAROUND TIME: FAX= 14 calendar days HARDCOPY/ELECT= 21 calendar days [IN CALENDAR OR WORK DAYS]
- 4) REQUIRED QA/QC DELIVERABLE PACKAGE (FULL PACKAGE OR RESULTS ONLY): Full Package REFER TO ATTACHMENT 1 FOR A LIST OF SPECIFIC DOCUMENTS REQUIRED.
- 5) REQUIRED DATA QUALITY: ALL ANALYTICAL DATA MUST MEET CRITERIA DEFINED IN EPA OSWER DIRECTIVE 9360.4-01/9355.901 FOR THE SELECTED DATA CATEGORY AND ANALYTICAL PARAMETER. APPLICABLE EXCERPTS OF THESE DOCUMENTS WILL BE PROVIDED TO THE LAB BY REQUEST.
- 6) ADDITIONAL TERMS AND CONDITIONS APPLICABLE TO SUBCONTRACTOR ANALYTICAL SERVICES UNDER GOVERNMENT CONTRACTS: REFER TO ATTACHMENT 2.

SIGNATURE OF LAB AGENT: _____

ecology and environment, inc.

1999 Bryan St., Suite 2000
Dallas, TX 75201
(214) 220-0318

International Specialists in the Environment
FAX: (214) 855-1422

FAX TRANSMISSION FORM

Date: July 20, 1998

Time:

Job Charge: 052601SFG1

Total pages: 4
(including transmission form)

To: Mark Bourgeois

Company: PDP Analytical Services

Fax phone: 281-298-5784

From: David Anderson

IF THIS FAX IS INCOMPLETELY RECEIVED OR IS ILLEGIBLE, PLEASE CALL FOR RETRANSMISSION.

Thank you for your prompt reply on the 6S180 project bid sent this morning.
Due to typos on the previous analytical quote, the bid must be resubmitted.

Thank you again.

**E & E ANALYTICAL QUOTE REQUEST FORM
BID SPECIFICATION - TO BE COMPLETED BY E & E**

FROM (E & E REQUESTOR): <u>David Anderson</u> OFFICE NAME/ADDRESS: <u>Ecology and Environment</u> <u>1999 Bryan St. Ste. 2000</u> <u>Dallas, TX 75201</u> PHONE #: <u>(214) 220-0318</u> FAX #: <u>(214) 855-1422</u> SITE NAME: <u>6S180</u> PAN #: <u>052601SFG1</u>	TO (LAB CONTACT): <u>Mark Bourgeois</u> LAB NAME/ADDRESS: <u>PDP Analytical Services</u> <u>1680 Lake Front Circle, Suite B The Woodlands, TX 77380</u> PHONE #: <u>281-363-2233</u> FAX #: <u>281-298-5784</u> REQUEST DATE: <u>7/20/98</u> QUOTE DEADLINE: <u>11:00AM CDT, 7/21/98</u>
SHIPMENT INFORMATION: DATE OF FIRST SHIPMENT: <u>week of August 3rd</u> FREQUENCY OF SHIPMENTS: <u>daily for 5 days</u> # SAMPLES/SHIPMENT: <u>16</u> TOTAL # OF SAMPLES: <u>97</u>	

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	46	TAL Metals	6010B	soil	3 pair MS/DUP	see START SOW
	46	TPH	TNRCC 1005	soil	3 pair MS/MSD	see TNRCC 1005 SOW
	46	pH	9045C	soil	3 duplicates	see START SOW
	51	BTEX	8021B Mod.	water	3 pair MS/MSD	see START SOW
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- 6) ADDITIONAL TERMS AND CONDITIONS APPLICABLE TO SUBCONTRACTOR ANALYTICAL SERVICES UNDER GOVERNMENT CONTRACTS: REFER TO ATTACHMENT 2.

SIGNATURE OF LAB AGENT: _____

Facsimile Cover Sheet

Free Long Distance Phone Card with Core Laboratories, Inc.- Gulf States Analytical

Date 7/20/98 Fax # 214-855-1422For David Anderson Total Pages 4Company E&EFrom Sally RoanMessage: See changes to quote. Let me know if
you have questionsThis bid
not submittedhigh costcan't meet TAT

Rules & Guidelines



This promotion is based on a single environmental testing project valued at \$3,000.00 or greater. Promotion will last for a three month period beginning May 1, 1998 and last through July 31, 1998. Single project valued at \$3,000.00 or greater must be received between May 1, 1998 through July 31, 1998. For a single project with multiple sample delivery groups, the project name, project number, and purchase order number must be identical in order to receive credit; and the single project must be valued at a total of \$3,000.00 or greater. Phone card will be mailed to recipient at the same time original laboratory report is mailed, however, phone card will be mailed separately. Phone card will be mailed to the contact who receives original laboratory report. Core Laboratories-Gulf States Analytical will determine client contact through documentation from the client's Chain of Custody form submitted to Core Laboratories-Gulf States Analytical. If client requests a different recipient, request must be made in writing. Only one, 20 minute phone card will be awarded for a single project valued at \$3,000.00 or greater. This promotion is exclusive to Core Laboratories-Gulf States Analytical. No other Core Laboratories, Inc. locations or any other competing environmental testing laboratories are included as part of this promotion. No other Core Laboratories, Inc. locations can participate in this promotion to receive phone card benefits through sub-contracting or otherwise. This promotion is solely sponsored by Core Laboratories-Gulf States Analytical, and no agreement has been made with any long distance company. No exceptions will be granted for this promotion. If you have any questions, please contact Sally Roan, Core Laboratories-Gulf States Analytical at 713/690-4444. Thank You.

CORELAB

"Providing Solutions for the Future"

07/20/98 09:28 FAX 214 855 1422

E & E DALLAS

0002

ANALYTICAL REQUIREMENTS SUMMARY**PROJECT (CASE) NUMBER:** 6S180**ANALYSIS REQUESTED:** BTEX, PAH, TAL metals and pH in soil; BTEX and TPH in water**NUMBER OF SAMPLES BY MATRIX:** 46 soil, 51 water**LAB QA REQUIREMENTS:****MS:**

soil: 3 - BTEX, PAH, TAL metals

water 3 - BTEX, TPH

MSD:

soil: 3 - BTEX, PAH

water: 3 - BTEX, TPH

DUP:

soil: 3 - TAL metals, pH

TOTAL NUMBER OF ANALYSES REQUESTED:

BTEX: 52 soil, 57 water

PAH: 52 soil

TAL metals: 52 soil

TPH: 52 soil, 52 water

pH: 49 soil

DELIVERABLE PACKAGE REQUIRED: Full hardcopy data package (CLP-like) are required including all associated QA for all parameters.**DELIVERY SCHEDULE:** 14 calendar days verbal/FAX, 21 calendar days hardcopy**BEGINNING SHIP DATE:** week of August 3rd**END SHIP DATE:** 5 days after beginning of shipment**PROJECT MANAGER:** Tom Beer**PROCUREMENT CHEMIST:** David Anderson**OTHER:**

PLEASE PROVIDE, VERIFY OR MODIFY THE UNIT AND TOTAL BID COSTS FOR THE ABOVE PROJECT AND RETURN SIGNED COPIES OF ALL PAGES TO THE E & E PROCUREMENT CHEMIST BY 11:00 AM, 7/21/98.

Core Lab - GSA

LABORATORY

Garry Roan

LABORATORY AGENT

7/20/98
DATE

**E & E ANALYTICAL QUOTE REQUEST FORM
 BID SPECIFICATION - TO BE COMPLETED BY E & E**

FROM (E & E REQUESTOR): <u>David Anderson</u>		TO (LAB CONTACT): <u>Sally Roan</u>	
OFFICE NAME/ADDRESS: <u>Ecology and Environment</u> <u>1999 Bryan St. Ste. 2000</u> <u>Dallas, TX 75201</u>		LAB NAME/ADDRESS: <u>Core Laboratories - Gulf State Analytical</u> <u>6310 Rothway Houston, TX 77040</u>	
PHONE #: <u>(214) 220-0318</u>	FAX #: <u>(214) 855-1422</u>	PHONE #: <u>713-690-4444</u>	FAX #: <u>713-690-5646</u>
SITE NAME: <u>6S154</u> PAN #: <u>052601SFG1</u>		REQUEST DATE: <u>7/20/98</u> QUOTE DEADLINE: <u>713-690-5646</u>	
SHIPMENT INFORMATION: DATE OF FIRST SHIPMENT: <u>week of August 3rd</u> FREQUENCY OF SHIPMENTS: <u>daily for 5 days</u> # SAMPLES/SHIPMENT: <u>16</u> TOTAL # OF SAMPLES: <u>97</u>			

REQUESTED ANALYSES/BROKEN DOWN BY MATRIX AND PARAMETER

SAME SAMPLE INDICATED BY BRACKETS	# OF SAMPLES	ANALYTICAL PARAMETERS	METHOD #	SAMPLE MATRIX	#/TYPE OF EXTRA QA REQUESTS (MS/MSD, ETC.)	OTHER REQUIREMENTS
	46	BTEX	<u>8021B Mod. 8020</u>	soil	3 pair MS/MSD	see START SOW
	46	PAH	<u>8310 82106</u>	soil	3 pair MS/MSD	see START SOW
	46	TAL Metals	6010B	soil	3 pair MS/DUP	see START SOW
	46	TPH	TNRCC 1005	soil	3 pair MS/MSD	see TNRCC 1005 SOW
	46	pH	9045C	soil	3 duplicates	see START SOW
	51	BTEX	<u>8021B Mod. 8020</u>	water	3 pair MS/MSD	see START SOW
	46	TPH	TNRCC 1005	water	3 pair MS/MSD	see START SOW

- 1) DATA CATEGORY (DEFINITIVE, SCREENING WITH DEFINITIVE CONFIRMATION OR SCREENING ONLY): Definitive
- 2) SAMPLE DISPOSAL BY LAB (YES, NO, OR OTHER): Yes
- 3) TURNAROUND TIME: FAX= 14 calendar days HARDCOPY/ELECT= 21 calendar days 28 due to capacity (IN CALENDAR OR WORK DAYS)
- 4) REQUIRED QA/QC DELIVERABLE PACKAGE (FULL PACKAGE OR RESULTS ONLY): Full Package REFER TO ATTACHMENT 1 FOR A LIST OF SPECIFIC DOCUMENTS REQUIRED.
- 5) REQUIRED DATA QUALITY: ALL ANALYTICAL DATA MUST MEET CRITERIA DEFINED IN EPA OSWER DIRECTIVE 9360.4-01/9355.901 FOR THE SELECTED DATA CATEGORY AND ANALYTICAL PARAMETER. APPLICABLE EXCERPTS OF THESE DOCUMENTS WILL BE PROVIDED TO THE LAB BY REQUEST.
- 6) ADDITIONAL TERMS AND CONDITIONS APPLICABLE TO SUBCONTRACTOR ANALYTICAL SERVICES UNDER GOVERNMENT CONTRACTS: REFER TO ATTACHMENT 2.

SIGNATURE OF LAB AGENT: Sally Roan

PAGE 1 of 2

E & E ANALYTICAL QUOTE REQUEST FORM
BID QUOTE - TO BE COMPLETED BY LABORATORY (3)

SAME SAMPLE INDICATED BY BRACKETS	VOL/ PRES/ CONT (1)	ANALYTICAL PARAMETER/ METHOD #	SAMPLE MATRIX	TURNAROUND TIME VERBAL/ HARDCOPY	UNIT COST FOR SPECIFIED TURNAROUND	# OF SAMPLES	TOTAL ANALYSIS COST (UNIT COST X # SAMPLES)	UNIT COST/TYPE OF EXTRA QA RE-QUESTS (MS/MSD, ETC.) (2)	# OF EXTRA QA RE-QUESTS	TOTAL EXTRA QA COST (UNIT COST X # REQUEST)
		BTEX	soil	14/21	40.	46	1840	0	6	0
		PAH	soil	14/21	125.	46	5,750		6	
		TAL Metals	soil	14/21	170.	46	7,820		6	
		pH	soil	14/21	5.	46	230		3	
		BTEX	water	14/21	40	51	2,040		6	
		TPH	water	14/21	55	46	2,530		6	

- (1) INDICATE LAB REQUIREMENTS FOR SIMPLE VOLUMES, PRESERVATIVES, AND CONTAINER USE BRACKETS TO INDICATE OF VOLUMES ARE FOR THE SAME SAMPLE OR ARE REQUIRED FOR SPECIFIC PARAMETERS.
(2) ONLY APPLICABLE FOR SPECIAL QA REQUESTS - METHOD REQUIRED QA SHOULD BE INCLUDED I SAMPLE ANALYSIS COST.
(3) REFER TO PAGE 1 FOR SPECIFIC INFORMATION ON REQUESTED ANALYSES.

ADDITIONAL COSTS:

SURCHARGE FOR QA/QC DELIVERABLE PACKAGE (DEFINED ON PG 1 AND ATTACHMENT 1): Included
DISPOSAL COST (SPECIFY IF PER CONTAINER OR FOR TOTAL JOB): N/A
OTHER COST: NA DISCOUNTS: Included
IS VERBAL PO# OK? (CIRCLE ONE): YES NO IS LAB PICKUP INCLUDED? (CIRCLE ONE): YES NO
ARE SAMPLE CONTAINERS/PAPERWORK INCLUDED? (CIRCLE ONE): YES NO

LAB CLASSIFICATION:

SMALL BUSINESS (CIRCLE ONE): YES NO IF YES, ID#: _____
SMALL DISADVANTAGED BUSINESS (CIRCLE ONE): YES NO IF YES, ID#: _____
WOMAN-OWNED BUSINESS (CIRCLE ONE): YES NO IF YES, ID#: _____
MINORITY-OWNED BUSINESS (CIRCLE ONE): YES NO IF YES, ID#: _____
INDICATE PARISH/COUNTY AND STATE BUSINESS IS LOCATED IN: Harris Tex

BID TOTAL: \$ 20,210.00

I HAVE READ AND AGREE TO ALL TERMS OF THIS BID REQUEST, ATTACHMENTS AND QUOTE.
PLEASE SIGN AND RETURN BOTH BID SPECIFICATION AND BID QUOTE SHEETS)

SIGNATURE OF LAB AGENT: Rally Roan

LAB NAME: Core Lab - GSA

ecology and environment, inc.

1999 Bryan St., Suite 2000
Dallas, TX 75201
(214) 220-0318

International Specialists in the Environment
FAX: (214) 855-1422

FAX TRANSMISSION FORM

Date: July 20, 1998

Time:

Job Charge: 052601SFG1

Total pages: 4
(including transmission form)

To: Sally Roan

Company: Core Laboratories - GSA

Fax phone: 713-690-5646

From: David Anderson

IF THIS FAX IS INCOMPLETELY RECEIVED OR IS ILLEGIBLE, PLEASE CALL FOR RETRANSMISSION.

Please disregard the previous analytical quote for project 6S180 sent this morning and replace it with this one.

Thank You.

**E & E ANALYTICAL QUOTE REQUEST FORM
BID SPECIFICATION - TO BE COMPLETED BY E & E**

FROM (E & E REQUESTOR): <u>David Anderson</u> OFFICE NAME/ADDRESS: <u>Ecology and Environment</u> <u>1999 Bryan St. Ste. 2000</u> <u>Dallas, TX 75201</u> PHONE #: <u>(214) 220-0318</u> FAX #: <u>(214) 855-1422</u> SITE NAME: <u>6S180</u> PAN #: <u>052601SFG1</u>	TO (LAB CONTACT): <u>Sally Roan</u> LAB NAME/ADDRESS: <u>Core Laboratories - Gulf State Analytical</u> <u>6310 Rothway Houston, TX 77040</u> PHONE #: <u>713-690-4444</u> FAX #: <u>713-690-5646</u> REQUEST DATE: <u>7/20/98</u> QUOTE DEADLINE: <u>11:00AM CDT, 7/21/98</u>
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	46	PAH	8310	soil	3 pair MS/MSD	see START SOW
	46	TAL Metals	6010B	soil	3 pair MS/DUP	see START SOW
	46	TPH	TNRCC 1005	soil	3 pair MS/MSD	see TNRCC 1005 SOW
	46	pH	9045C	soil	3 duplicates	see START SOW
	51	BTEX	8021B Mod.	water	3 pair MS/MSD	see START SOW
	46	TPH	TNRCC 1005	water	3 pair MS/MSD	see START SOW

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SIGNATURE OF LAB AGENT: _____

ecology and environment, inc.
PURCHASE REQUISITION

Vendor: <u>PDP Analytical Services</u> Address: <u>1680 Lake Front Circle, Suite B</u> <u>The Woodlands, Texas 77380</u> Contact: <u>Mark Bourgeois</u> Phone: <u>281-363-2233</u>	Date: <u>7/16/98</u> PR No.: <u>561-9256</u> Ship Via: _____ Date Required: <u>8/3/98</u> LIN: _____ PO No.: <u>125 019</u> Contract No.: <u>68-W6-0013</u> Account: _____ Project Number/PAN: <u>6S180 / 052601SFG1</u>
Ship to: <u>Same As Billing</u> Attention: <u>David Anderson</u>	Billing Address: <u>Ecology and Environment, Inc.</u> <u>1999 Bryan Street, Suite 2000</u> <u>Dallas, Texas 75201</u> Attention: _____

Item	Description	Quantity	Unit Price	Amount
1	BTEX by Mod.8021B (46 soil samples + 3 MS/MSD pairs) <u>(NC)</u>	46 analysis	40.00	1840.00
2	PAH by 8310 (46 soil samples + 3 MS/MSD pairs) <u>(NC)</u>	46 analysis	110.00	5060.00
3	TAL Metals by 6010B (46 soil samples + 3 MS/MSD pairs) <u>"</u>	46 analysis	90.00	4140.00
4	TPH by TNRCC 1005 (46 soil samples + 3 MS/MSD pairs) <u>"</u>	46 analysis	40.00	1840.00
5	pH by 9045C (46 soil samples + 3 Duplicates) <u>"</u>	46 analysis	5.00	230.00
6	BTEX by Mod. 8021B (51 water samples + 3 MS/MSD pairs) <u>"</u>	51 analysis	40.00	2040.00
7	TPH by TNRCC 1005 (46 water samples + 3 MS/MSD pairs) <u>"</u>	46 analysis	40.00	1840.00
8	Turnaround time (TAT) of 14 calender days (c.d.) for verbal results and 21 c.d. for hardcopy results		INCL	NC
9	Full CLP data deliverable		INCL	NC
	EXHIBITS 3 AND 4 ARE INCORPORATED BY REFERENCE			
	PURCHASE REQUISITION TOTAL			16990.00

Purpose/Justification (continue on back if necessary)

The EPA TM requested that the START obtain analytical services for samples to be collected at the Wilcox Refinery site located in Bristow, Oklahoma.

PAN 052601SFG1, Project Number 6S180, TDD 06-98-03-0009

ALTERNATE SOURCES

Item	Vendor	Comment	Amount
1-9	Ecology and Environment Analytical Service Center	higher bid	20490.00
1-9	Specialized Assays, Inc.	higher bid	19529.00

Printed Name of Requestor: David Anderson Signature of Requestor: David Anderson

Approved by/Date: Alan Palmer 8/3/98

1. _____ 3. _____

2. _____ 4. _____



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6

1445 ROSS AVENUE, SUITE 1200

DALLAS, TX 75202-2733

July 23, 1998

Mr. Al Tinker
Ecology and Environment, Inc.
1999 Bryan Street, Suite 2000
Dallas, TX 75201

RE: Contract No.: 68-W6-0013, Request for Subcontract Consent
for Wilcox Refinery Site in Bristow, OK under TDD 9803-0009

Dear Mr. Tinker:

In response to your letter dated July 22, 1998 requesting subcontract consent for the above referenced site, this letter provides consent to subcontract with the following firm:

PDP Analytical Services
1680 Lake Front Circle, Suite B
The Woodlands, TX 77380

for analytical services in the total amount Not To Exceed \$16,990.00 for the Wilcox Refinery Site in Bristow, OK. Consent is provided from the date of this letter through the completion of this TDD.

This consent shall in no way relieve the prime contractor of any obligations or responsibilities it may otherwise have under the contract or under law. This consent does not constitute an increase in the prime contract value, or the total pool value of the Subcontracting pool or the Analytical Services pool set forth in the prime contract. This consent creates neither any government obligation to nor privity of contract with your subcontractor, and shall be without prejudice to any right or claim of the government under the prime contract. This consent does not constitute a determination as to the acceptability of the subcontract price or the allowability of costs.

If you have any questions, please contact me at 665-6512.

Sincerely,

A handwritten signature in cursive script, appearing to read "Tobin Osterberg".

Tobin Osterberg
Contracting Officer

cc: Chris Quina, START Program Manager
Hank Thompson, Region 6 Project Officer
Don Smith, Region 6 Task Monitor



ecology and environment, inc.

International Specialists in the Environment

1999 Bryan Street
Dallas, Texas 75201
Tel: (214) 220-0318, Fax: (214) 855-1422

Date: July 22, 1998

To: Tobin Osterberg, CO
EPA Region 6, Program Management Branch

Thru: Chris Quina, STL
Region 6, Superfund Technical Assessment & Response Team

From: Alan Tinker, CFM *A.T.*
Region 6, Superfund Technical Assessment & Response Team

Subj: Proposed analytical procurement for soil & water sample analysis at
Wilcox Refinery Site
Bristow, Oklahoma
TDD: #S06-9803-0009
PAN: #052601SFG1
NTE: \$16,990.00

Submitted herewith for your review and consent is the justification package for the subject procurement. This justification package is prepared IAW prime contract clause I.9 (SUB-CONTRACTS) subpart (b)(1)(iii), all items required by the subject clause are addressed. The present schedule calls for samples to be shipped the week of August 3, 1998.

A. BACKGROUND

The START has been tasked by the EPA to submit soil and water samples from the Wilcox Refinery site as part of a Oil Spill Response at the site. Analytical objectives for this effort have been approved by the EPA TM, and the TM was notified of the need for a TDD amendment.

B. SCOPE OF WORK

The proposed laboratory is to provide the following:

46 anal. BTEX in soil by SW846 M8021B/E&E SOW (+3 MS/MSD pair@NC)
46 anal. PAH in soil by SW846 M8310/E&E SOW (+3 MS/MSD pair@NC)
46 anal. TAL metals in soil by SW846 M6010B/7471/E&E SOW (+3 MS/MSD pair@NC)
46 anal. TPH in soil by TNRCC 1005/E&E SOW (+3 MS/MSD pair@NC)
46 anal. pH in soil by SW846 9045C/E&E SOW (+3 DUP @ NC)
51 anal. BTEX in water by SW846 M8021B/E&E SOW (+3 MS/MSD pair@NC)
46 anal. TPH in water by TNRCC 1005/E&E SOW (+3 MS/MSD pair@NC)

A full CLP like data package is required, 14 day FAX, complete data package due 21 calendar days after receipt of samples. The laboratory is also responsible for proper sample disposal in accordance with all relevant laws and regulations.

C. BID SOLICITATION

The START Contractor prepared bid packages for two firms that have previously expressed interest in this type of analysis, and the E&E ASC Laboratory. The bid packages were sent to the labs July 20, 1998 and bids were due July 21. The individual completed and signed solicitations from the bidders are attached. Once bids were received, a Bid Analysis Form was completed.

D. COST ANALYSIS

A summary of the proposed costs as submitted in the bid verification forms is shown on the attached Bid Analysis Form. The Regional START PM, CFM and QAO reviewed the bid proposals and historical performance of all bidders and determined that all could perform the required analyses within the project schedule and quality requirements. PDP Analytical proposed to provide this service at the lowest competitive cost to the government. The cost to the government as shown on the attached Bid Analysis Form, on a per deliverable analysis (366) basis is \$46.42 for PDP, \$53.36 for Specialized Assays the second lowest, and \$55.98 for E&E ASC the highest. Based on other recent bid history (previous analytical job for this site, which was awarded to E&E 4-24-98) which ranged from \$5.00 to \$110.00 for 42 of the exact same analyses (PDP did not bid that job), these costs seem reasonable and in the competitive range. IAW Prime Contract clause I.9 the following items are addressed:

- a) Principal elements of the subcontract price negotiations were to obtain the lowest price for the required services in the best interest of the government.
- b) The most significant considerations controlling the establishment of prices were to obtain the required QA/QC analysis at no additional cost to the government.
- c) Cost or pricing data was not required because this is an off the shelf procurement of a commercially available service.
- d) The START Contractor did not rely on the subcontractors cost & pricing data to any extent in determining the price objective or in negotiating the final price.
- e) The START Contractor did not recognize that the cost & pricing data was inaccurate, incomplete or not current because no cost & pricing data was required.
- f) There was not any significant difference between the START Contractors price objective and the price negotiated.
- g) There are no incentive fee or profit plans involved in this procurement.

E. RECOMMENDATION

In consideration of the above, the START recommends that a fixed unit price purchase order not to exceed \$16,990.00 be awarded to PDP Analytical, Inc. for soil and water analysis at the Wilcox Refinery Site. Please do not hesitate to contact me if you have any questions regarding this procurement.

pc: David Anderson, START Chemist

START REGION 6
SUBCONTRACT JUSTIFICATION AND CONSENT PACKAGE
FOR
ANALYTICAL SERVICES

WILCOX REFINERY SITE
BRISTOW, CREEK COUNTY, OKLAHOMA
TDD #S06-9803-0009

CONTRACT NO. 68-W6-0013

Prepared for:

U. S. Environmental Protection Agency
Region 6
Response and Prevention Branch
1445 Ross Avenue
Dallas, Texas 75202-2733

Ms. Tobin Osterberg
Contracting Officer

July 22, 1998

Prepared by:

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